

GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: February 5, 2004, 16:22:11 ; Search time 41 Seconds  
(without alignments)

1025.916 Million cell updates/sec

Title: US-09-990-726-223

Perfect score: 1409

Sequence: 1 MGLPGLFCLAVLAASSFSKA.....EFGFRIGNGEVRGKAAAM 265

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1107863 seqs, 158726573 residues

Total number of hits satisfying chosen parameters: 1107863

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 150 summaries

Database :

A Genesepc\_19Jun03.\*

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23: /SIDSL/gcgdata/geneseq/geneseq-emb1/AA2002.DAT.*
24: /SIDSL/gcgdata/geneseq/geneseq-emb1/AA2003.DAT.*

```

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match %	Length	ID	Description
1	1409	100.0	265	21	AA824063 Human PRO809 prote
2	1409	100.0	265	21	AA866691 Membrane-bound pro
3	1409	100.0	265	22	AA865214 Human PRO809 (UNQ4
4	1409	100.0	265	23	AA863666 Human PRO protein,
5	1409	100.0	265	24	AA859107 Novel human secret
6	1409	100.0	265	24	AA859254 Human secreted/tra
7	1409	100.0	265	24	AA859403 Novel human secret
8	1409	100.0	265	24	AA860538 Human secreted/tra
9	1409	100.0	265	24	AA858029 Human PRO polypept

10	1409	100.0	265	24	ABUS8960 Human secreted/tr
11	1409	100.0	265	24	ABU13920 Human PRO polypept
12	1409	100.0	265	24	ABU10875 Human secreted pro
13	1149	81.5	247	22	AA89176 Human EST encoded
14	725.5	51.5	232	22	AA824472 Human secreted pro
15	654.5	46.5	235	24	ABJ19682 Human secreted pro
16	654.5	46.5	235	24	ABP99572 Human secreted pro
17	654.5	46.5	235	21	AA839216 Human secreted pro
18	636	45.1	175	22	AAU21256 Human novel foetal
19	114.5	8.1	759	22	AA82313 Human immunoglobul
20	110.5	7.8	977	22	AA82315 Human immunoglobul
21	105	7.5	508	22	AA82317 Human immunoglobul
22	101.5	7.2	343	20	AA827129 Human bone marrow-
23	101.5	7.2	343	20	AA827130 Human bone marrow-
24	101.5	7.2	343	21	AA827130 Human bone marrow-
25	101.5	7.2	362	22	ABU10224 Human TANGO 226,
26	101.5	7.2	362	22	ABU18018 Human cDNA SEQ ID
27	101.5	7.2	362	23	ABP66811 Human polypeptide
28	101.5	7.2	366	22	AA825703 Human protein sequ
29	101.5	7.2	385	23	ABG96265 Human immunoglobul
30	101	7.2	571	17	AA894894 CD31 fragment (dom
31	101	7.2	592	22	AA82314 Human immunoglobul
32	100	7.1	727	24	AB884668 Human SECP-20 prot
33	100	7.1	734	22	AA82316 Human immunoglobul
34	99.5	7.1	31267	24	ABG74786 Human RGS11 protei
35	98.5	7.0	222	23	ABP69283 Human polypeptide
36	98	7.0	738	12	AA813251 PECAM-1. Homo sap
37	98	7.0	738	18	AA814802 PECAM-1. Homo sap
38	98	7.0	738	21	AA807652 A platelet-endothe
39	98	7.0	738	22	AA865866 Human PECAM-1 prot
40	97.5	6.9	474	17	AA894893 CD31 fragment (dom
41	97.5	6.9	506	22	ABG10463 Novel human diagno
42	97.5	6.9	547	14	AA839741 ICAM-R (intercellu
43	97.5	6.9	547	19	AA876118 Human ICAM-R prote
44	97.5	6.9	547	19	AA871252 Human intercellula
45	97.5	6.9	547	19	AA859005 Human ICAM-R prote
46	97.5	6.9	547	19	AA844838 Human ICAM-4 prote
47	97.5	6.9	547	20	AA800779 Human ICAM-R prote
48	97.5	6.9	547	20	AA881440 Human intercellula
49	97.5	6.9	547	21	AA813036 Human ICAM-R prote
50	97.5	6.9	547	21	AA824335 Human ICAM-R encod
51	97.5	6.9	547	21	AA850743 Human ICAM-R prote
52	97.5	6.9	547	22	AA850095 Human ICAM-R. Hom
53	97.5	6.9	547	23	AAU70928 Interleukin adhe
54	97	6.9	4391	24	AA834390 Human perlecan pro
55	95.5	6.8	429	22	AA82318 Human immunoglobul
56	94	6.7	327	23	ABP63021 Human polypeptide
57	94	6.7	549	21	AA858139 Lung cancer associ
58	93	6.6	319	18	AA814146 Human A33 antigen.
59	93	6.6	319	20	AA823323 Amino acid sequenc
60	93	6.6	319	22	AA865863 Human A33 protein
61	93	6.6	336	23	ABP62881 Human polypeptide
62	93	6.6	793	23	AA814781 Human immunoglobul
63	93	6.6	898	22	ABG12152 Novel human diagno
64	92.5	6.6	1700	23	AB805044 Human NOV6 protein
65	91.5	6.5	301	23	ABR40465 Human secreted pro
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67	91.5	6.5	304	20	AA812934 Amino acid sequenc
68	91.5	6.5	318	18	AA814158 Mouse A33 antigen.
69	91.5	6.5	480	22	AAU00501 Human TANGO 330 fo
70	91.5	6.5	985	20	AA844716 Human PRO860 prote
71	91.5	6.5	985	21	AA844722 Human PRO860 (UNQ4
72	91.5	6.5	985	24	ABU61102 Human PRO860 polyp
73	91.5	6.5	1007	23	AB897310 Novel human protei
74	91.5	6.5	1104	23	AAU99419 Human ECSW4 protei
75	91	6.5	4393	22	AA831889 Amino acid sequenc
76	91	6.5	4436	22	ABG23265 Novel human diagno
77	90.5	6.4	562	10	AA80458 Sequence of human
78	90.5	6.4	562	24	ABU04062 Human expressed pr
79	90.5	6.4	1256	22	AA884865 Murine nephrin pro
80	90.5	6.4	1618	22	AA859829 Protein #6 encoded
81	90	6.4	370	23	AA823555 Human FAIL protein
82	90	6.4	892	24	ABP96857 Escherichia coli X

83 89.5 6.4 868 22 ABB63905 Drosophila melanog  
84 89.5 6.4 1263 23 ABP69461 Human polypeptide  
85 89.5 6.4 1694 22 AAE09449 Human sbg248785ia  
86 89.5 6.4 1709 22 AAE09448 Human sbg248785ia  
87 89.5 6.4 1839 22 ABG10466 Novel human diagno  
88 89 6.3 370 23 AAE23556 Human FAIL protein  
89 88.5 6.3 370 23 AAE23553 Human FAIL protein  
90 88.5 6.3 395 22 AAE06611 Human protein havi  
91 88.5 6.3 917 18 AAU00930 Rat ICAM-4. Rattu  
92 88.5 6.3 917 19 AAU00930 Rat intercellular  
93 88.5 6.3 917 19 AAU00930 Rat ICAM-4 protein  
94 88.5 6.3 917 19 AAU00930 Rat ICAM-4 protein  
95 88.5 6.3 917 19 AAU00930 Rat ICAM-4 protein  
96 88.5 6.3 917 20 AAU00930 Rat ICAM-4 protein  
97 88.5 6.3 939 24 AAU00930 Human mature FAIL  
98 88 6.2 343 23 AAE23546 Human mature FAIL  
99 88 6.2 370 23 AAE23544 Human FAIL protein  
100 88 6.2 370 23 AAE23544 Human FAIL protein  
101 88 6.2 757 19 AAU00930 Mouse TRIDENT tran  
102 87.5 6.2 333 21 AAB12313 Human secreted pro  
103 87.5 6.2 532 18 AAU00930 Human intracellular  
104 87.5 6.2 532 24 AAU00930 Human expressed pr  
105 87.5 6.2 792 22 AAG95515 Human protein sequ  
106 87.5 6.2 792 22 AAG95515 Human protein sequ  
107 87 6.2 822 23 AAU00930 Amino acid sequenc  
108 87 6.2 5635 23 AAB60991 Human ICAM-1/IgA2m  
109 86.5 6.1 532 16 AAB79457 Novel human protei  
110 86.5 6.1 532 24 AAU00930 ICAM-1. Homo sapi  
111 86 6.1 264 22 AAB10330 Human expressed pr  
112 86 6.1 264 23 AAB66917 Human cDNA SEQ ID  
113 86 6.1 2367 24 AAB38872 Human polypeptide  
114 85.5 6.1 364 8 AAP70310 Human mCR2 # SEQ  
115 85.5 6.1 364 8 AAP70199 Sequence of porcine  
116 85.5 6.1 378 22 AAB51347 Sequence of porcine  
117 85.5 6.1 4495 22 AAB51347 Bovine HSV-glycopro  
118 85 6.0 398 24 AAG75600 Human NOVX polypep  
119 85 6.0 405 15 AAU00930 Anti-angiogenic pe  
120 85 6.0 405 15 AAU00930 Mouse mucosal addr  
121 85 6.0 408 22 AAB10611 Mouse mucosal adre  
122 85 6.0 518 20 AAU25966 Novel human diagno  
123 85 6.0 753 20 AAU00930 Gorilla ICAM-3 pro  
124 85 6.0 753 24 AAU00930 Human T85 protein.  
125 85 6.0 848 21 AAB88565 Human expressed pr  
126 85 6.0 848 21 AAB88565 Human NCAM 140kd i  
127 85 6.0 1179 23 AAB97578 Human 140kd NCAM i  
128 84.5 6.0 278 23 AAB23547 Novel human protei  
129 84.5 6.0 305 23 AAB23557 Human FAIL extrac  
130 84.5 6.0 451 21 AAB58141 Lung cancer associ  
131 84.5 6.0 451 21 AAB58141 Human expressed pr  
132 84.5 6.0 480 11 AAB06240 Soluble intercellu  
133 84.5 6.0 480 24 AAU04064 Human expressed pr  
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135 84.5 6.0 481 21 AAU04064 Human expressed pr  
136 84.5 6.0 508 18 AAU14721 Human expressed pr  
137 84.5 6.0 508 24 AAU04076 Inter-cellular adhe  
138 84.5 6.0 532 10 AAB91357 Inter-cellular adhe  
139 84.5 6.0 532 11 AAB04165 Inter-cellular adh  
140 84.5 6.0 532 13 AAB20809 Inter-cellular Adhe  
141 84.5 6.0 532 14 AAB35071 ICAM-1. Homo sapi  
142 84.5 6.0 532 15 AAB40666 Human ICAM-1. Hom  
143 84.5 6.0 532 15 AAB58779 Inter-cellular adh  
144 84.5 6.0 532 17 AAU01437 Human ICAM-1. Hom  
145 84.5 6.0 532 17 AAB90294 Intracellular adhe  
146 84.5 6.0 532 18 AAU14720 Human ICAM-1. Hom  
147 84.5 6.0 532 18 AAU09313 Human ICAM-1 (enco  
148 84.5 6.0 532 19 AAU80446 Human intracellular  
149 84.5 6.0 532 19 AAU70871 Intracellular adhe  
150 84.5 6.0 532 19 AAU71263 Human intercellula

## ALIGNMENTS

RESULT 1  
AAB24063  
ID AAB24063 standard; Protein; 265 AA.  
XX AAB24063;  
AC AAB24063;  
XX  
DT 29-JAN-2001 (first entry)  
XX  
DE Human PRO809 protein sequence SEQ ID NO:23.  
XX  
KW Human; tumour; diagnosis; neoplastic disease; neoplastic cell growth;  
KW proliferation; tumorigenesis; identification; cancer; cytostatic;  
KW neoplastic; neuroprotective; antiinflammatory; immunosuppressive;  
KW immunostimulant; antiangiogenic; leukaemia; lymphoid malignancy;  
KW neuronal disorder; gliial disorder; astrocytal disorder; angiogenic;  
KW hypothalamic disorder; glandular disorder; macrophagal disorder;  
KW epithelial disorder; stromal disorder; blastocoeic disorder;  
KW inflammatory disorder; immunologic disorder.  
XX  
OS Homo sapiens.  
XX  
PN WO200053755-A2.  
XX  
PD 14-SBP-2000.  
XX  
PF 06-JAN-2000; 2000WO-US00376.  
XX  
PR 08-MAR-1999; 99WO-US05028.  
PR 02-JUN-1999; 99WO-US12252.  
PR 23-JUN-1999; 99US-0141037.  
PR 07-JUL-1999; 99US-0143046.  
PR 26-JUL-1999; 99US-0145698.  
PR 30-NOV-1999; 99WO-US28313.  
PR 20-DEC-1999; 99WO-US30911.  
PR 05-JAN-2000; 2000WO-US00219.  
XX  
(GETH ) GENENTECH INC.  
XX  
PI Ashkenazi AJ, Baker KP, Goddard A, Gurney AL, Hillan KJ, Roy MA;  
PI Watanabe CK, Wood WI;  
XX  
DR WPI; 2000-572270/53.  
DR N-PSDB; AAC58373.  
XX  
PT Thirty PRO polynucleotides encoding PRO polypeptides, useful in the  
PT treatment, diagnosis and prevention of cancer -  
XX  
Claim 61; Fig 14; 286pp; English.  
XX  
CC The present invention describes an isolated antibody that binds to  
CC one of the human PRO proteins designated PRO212, PRO290, PRO341, PRO535,  
CC PRO619, PRO717, PRO809, PRO830, PRO848, PRO943, PRO1005, PRO1009,  
CC PRO1025, PRO1030, PRO1097, PRO1107, PRO1111, PRO1153, PRO1182, PRO1184,  
CC PRO1187, PRO1281, PRO23, PRO39, PRO834, PRO1317, PRO1710, PRO2094,  
CC PRO2145 OR PRO2198. PRO antagonists can be used to inhibit tumour cell  
CC growth. The PRO polypeptides and nucleotides are useful in the  
CC treatment, diagnosis and prevention of cancer. The antibodies and other  
CC anti-tumour compounds may be used to treat various conditions, including  
CC those characterised by overexpression and/or activation of the amplified  
CC PRO genes. Exemplary conditions or disorders to be treated with such  
CC antibodies and other compounds include benign or malignant tumours  
CC (e.g., renal, liver, kidney, bladder, breast, gastric, ovarian,  
CC colorectal, prostate, pancreatic, lung, vulva, thyroid, hepatic  
CC carcinomas, sarcomas, glioblastomas, and various head and neck tumours),  
CC leukaemias and lymphoid malignancies, other disorders such as neuronal,  
CC gliial, astrocytal, hypothalamic and other glandular, macrophagal,  
CC epithelial, stromal and blastocoeic disorders, and inflammatory,  
CC angiogenic and immunologic disorders. AAC58242 to AAC58366 represent PCR  
CC primers and hybridisation probes used in the isolation of the human PRO  
CC sequences. AAC58367 to AAC58396 and AAB24057 to AAB24089 represent human  
CC PRO polynucleotide and protein sequences given in the exemplification of  
CC the present invention.  
XX

## RESULT 2



PI Zhang Z;  
 XX WPI; 2001-032160/04.  
 DR N-PSDB; AAF44176.  
 XX  
 PT PRO polynucleotides used to produce polypeptides used to target  
 PT bioactive molecules such as toxins, radiolabels or antibodies, to  
 PT specific cells, to cause targeted cell death -  
 XX  
 PS Claim 12; Fig 151; 935pp; English.  
 XX  
 CC The present invention describes human secreted and transmembrane PRO  
 CC proteins. The PRO proteins have cytostatic activity. The PRO proteins  
 CC can be used for targeted delivery of bioactive molecules, such as  
 CC toxins, radiolabels or antibodies, that cause cell death. PRO nucleotide  
 CC sequences, and their fragments, can be used as hybridisation probes, in  
 CC chromosomal and gene mapping, and in the generation of anti-sense RNA  
 CC and DNA. They may also be used to produce transgenic animals which are  
 CC used to develop and screen therapeutically useful reagents. The PRO  
 CC nucleotide and protein sequence can be used for tissue typing and in  
 CC treating cancer. Anti-PRO antibodies can be used in diagnostic assays.  
 CC AAF44270 to AAF44470 represent PCR primers and hybridisation probes used  
 CC in the isolation of human PRO sequences. AAF44087 to AAF44269 and  
 CC AAB65154 to AAB65300 represent human PRO polynucleotide and protein  
 CC sequences given in the exemplification of the present invention.  
 XX  
 SQ Sequence 265 AA;  
 Query Match 100.0%; Score 1409; DB 22; Length 265;  
 Best Local Similarity 100.0%; Pred. No. 2.9e-131;  
 Matches 265; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 1 MGLPGLFCLAVLAASSFSKAREEITPVVSIAYKLVLEVPKGRWVLTCCAPQPPPPITY 60  
 Db 1 MGLPGLFCLAVLAASSFSKAREEITPVVSIAYKLVLEVPKGRWVLTCCAPQPPPPITY 60  
 QY 61 SLCGTNIKIVAKVKVKTTPASFNLTLSKSSPDLLTYFCRASSTSGAHVDSARLQHWHE 120  
 Db 61 SLCGTNIKIVAKVKVKTTPASFNLTLSKSSPDLLTYFCRASSTSGAHVDSARLQHWHE 120  
 QY 121 LWSKPVSELRANFTLQDRGAGPRVEMICQASSGSPPTNSLIGKDGQVHLQORPCHROPA 180  
 Db 121 LWSKPVSELRANFTLQDRGAGPRVEMICQASSGSPPTNSLIGKDGQVHLQORPCHROPA 180  
 QY 181 NFSFLPSQTSDFWQCQANNANVQHSALTVPVPGGDQKMDWQGLPESLILALPLVSTR 240  
 Db 181 NFSFLPSQTSDFWQCQANNANVQHSALTVPVPGGDQKMDWQGLPESLILALPLVSTR 240  
 QY 241 RLSEEFEGGPRIGNGEVGRKAAM 265  
 Db 241 RLSEEFEGGPRIGNGEVGRKAAM 265  
 RESULT 4  
 AAU83666  
 ID AAU83666 standard; Protein; 265 AA.  
 XX  
 AC AAU83666;  
 XX  
 DT 08-MAY-2002 (first entry)  
 XX  
 DE Human PRO protein, seq ID No 150.  
 XX  
 KW Human; secreted protein; PRO; tumour; lung cancer; colon cancer;  
 KW breast cancer; prostate tumour; rectal tumour; liver tumour;  
 KW pericyte cell proliferation; chondrocyte cell proliferation;  
 KW tumour necrosis factor-alpha.  
 XX  
 OS Homo sapiens.  
 XX  
 PN W0200208288-A2;  
 XX  
 PD 31-JAN-2002.

XX 29-JUN-2001; 2001WO-US21066.  
 XX  
 PR 20-JUL-2000; 2000US-219556P.  
 PR 25-JUL-2000; 2000US-220585P.  
 PR 25-JUL-2000; 2000US-220605P.  
 PR 25-JUL-2000; 2000US-220607P.  
 PR 25-JUL-2000; 2000US-220624P.  
 PR 25-JUL-2000; 2000US-220638P.  
 PR 25-JUL-2000; 2000US-220664P.  
 PR 25-JUL-2000; 2000US-220666P.  
 PR 26-JUL-2000; 2000US-220893P.  
 PR 28-JUL-2000; 2000WO-US20710.  
 PR 23-AUG-2000; 2000WO-US23522.  
 PR 24-AUG-2000; 2000WO-US23328.  
 PR 15-SEP-2000; 2000US-000000P.  
 PR 10-NOV-2000; 2000WO-US30873.  
 PR 28-NOV-2000; 2000US-253646P.  
 PR 01-DEC-2000; 2000WO-US32678.  
 PR 20-DEC-2000; 2000US-0747259.  
 PR 20-DEC-2000; 2000WO-US34956.  
 PR 28-FEB-2001; 2001WO-US06520.  
 PR 10-MAY-2001; 2001US-0854280.  
 PR 23-MAY-2001; 2001WO-US17092.  
 XX  
 PA (GETH ) GENENTECH INC.  
 XX  
 XX Baker KP, Desnoyers L, Gerritsen ME, Goddard A, Godowski PU;  
 PI Grimaldi JC, Gurney AL, Smith V, Stephan JF, Watanabe CK, Wood WI;  
 XX  
 DR WPI; 2002-172001/22.  
 DR N-PSDB; ABK33610.  
 XX  
 PT One hundred and twenty two nucleic acids encoding PRO polypeptides,  
 PT useful for treating a PRO related disorder and for diagnosing tumours  
 PT such as lung cancer, colon cancer, breast tumour, prostate tumour, rectal  
 PT tumour or liver tumour -  
 XX  
 PS Claim 11; Figure 150; 359pp; English.  
 XX  
 CC The invention relates to one hundred and twenty two nucleic acids  
 CC encoding PRO polypeptides. The sequences of the 122 PRO polynucleotides  
 CC encode human secreted proteins. The PRO nucleic acids, polypeptides,  
 CC agonists and antagonists are useful for treating a PRO related disorder.  
 CC The PRO polypeptides are useful for diagnosing tumours, especially lung  
 CC cancer, colon cancer, breast tumour, prostate tumour, rectal tumour or  
 CC liver tumour. The PRO polypeptides are useful for stimulating the  
 CC proliferation of, or gene expression, in pericyte cells, for stimulating  
 CC the proliferation or differentiation of chondrocyte cells, for  
 CC stimulating the release of tumour necrosis factor-alpha from human blood,  
 CC for stimulating or inhibiting the proliferation of normal human dermal  
 CC fibroblast cells. The PRO polypeptide may also be used as molecular  
 CC weight markers and for tissue typing. The PRO nucleic acids have  
 CC applications in molecular biology, including use as hybridisation probes,  
 CC and in chromosome and gene mapping. AAU83592-AAU83713 represent human PRO  
 CC protein sequences of the invention.  
 XX  
 SQ Sequence 265 AA;

Query Match 100.0%; Score 1409; DB 23; Length 265;  
 Best Local Similarity 100.0%; Pred. No. 2.9e-131;  
 Matches 265; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGLPGLFCLAVLAASSFSKAREEITPVVSIAYKLVLEVPKGRWVLTCCAPQPPPPITY 60  
 Db 1 MGLPGLFCLAVLAASSFSKAREEITPVVSIAYKLVLEVPKGRWVLTCCAPQPPPPITY 60  
 QY 61 SLCGTNIKIVAKVKVKTTPASFNLTLSKSSPDLLTYFCRASSTSGAHVDSARLQHWHE 120  
 Db 61 SLCGTNIKIVAKVKVKTTPASFNLTLSKSSPDLLTYFCRASSTSGAHVDSARLQHWHE 120  
 QY 121 LWSKPVSELRANFTLQDRGAGPRVEMICQASSGSPPTNSLIGKDGQVHLQORPCHROPA 180  
 Db 121 LWSKPVSELRANFTLQDRGAGPRVEMICQASSGSPPTNSLIGKDGQVHLQORPCHROPA 180

Db 121 LMSKPVSELRANFTLQDRGAGPRVEMICQASSPPITNSLICKDGOVHLQBPCHRQPA 180

Qy 181 NFSFLPSQTSDFWQCQAAANNVQHSALTVPVPGGQKQMEDWQGPLESPIALPLVRSYR 240

Db 181 NFSFLPSQTSDFWQCQAAANNVQHSALTVPVPGGQKQMEDWQGPLESPIALPLVRSYR 240

Qy 241 RLSEEFEGGPRIGNGEVRGRKAAAM 265

Db 241 RLSEEFEGGPRIGNGEVRGRKAAAM 265

RESULT 5

ABU59107

ID ABU59107 standard; Protein; 265 AA.

XX AC ABU59107;

XX DT 28-APR-2003 (first entry)

XX Novel human secreted or transmembrane protein PRO809.

XX Human; PRO; hypertrophy of neonatal heart; angiogenesis; wound healing;

KW cardiac insufficiency disorder; cancer; tumour; immune response;

KW adrenal cortical capillary endothelial growth; c-fos induction;

KW vascular endothelial growth factor inhibition; VEGF inhibition;

KW endothelial cell growth inhibitor; T-lymphocytes stimulation;

KW retinal neurons cell survival; rod photoreceptor cell survival;

KW retinal disorder; retinitis pigmentosa; kidney disease;

KW mammalian kidney mesangial cell proliferation; Berger disease;

KW dermatitis; herpeticiformis; Crohn's disease; chondrocyte proliferation;

KW chondrocyte redifferentiation; sports injury; arthritis.

XX OS Homo sapiens.

XX US2002132252-A1.

PN 19-SEP-2002.

PD 14-NOV-2001; 2001US-0390442.

PF 05-NOV-1997; 97WO-US20069.

PR 16-SEP-1998; 98WO-US19330.

PR 17-SEP-1998; 98WO-US19437.

PR 01-OCT-1998; 98WO-US21141.

PR 01-DEC-1998; 98WO-US25108.

PR 05-JAN-1999; 99WO-US00106.

PR 08-MAR-1999; 99WO-US05028.

PR 02-JUN-1999; 99WO-US12252.

PR 15-SEP-1999; 99WO-US21090.

PR 15-SEP-1999; 99WO-US21547.

PR 30-NOV-1999; 99WO-US28313.

PR 01-DEC-1999; 99WO-US28301.

PR 01-DEC-1999; 99WO-US28634.

PR 16-DEC-1999; 99WO-US30095.

PR 20-DEC-1999; 99WO-US30311.

PR 06-JAN-2000; 2000WO-US000219.

PR 06-JAN-2000; 2000WO-US00376.

PR 11-FEB-2000; 2000WO-US033565.

PR 18-FEB-2000; 2000WO-US04341.

PR 22-FEB-2000; 2000WO-US04414.

PR 24-FEB-2000; 2000WO-US04914.

PR 24-FEB-2000; 2000WO-US05004.

PR 02-MAR-2000; 2000WO-US05841.

PR 10-MAR-2000; 2000WO-US06319.

PR 15-MAR-2000; 2000WO-US06884.

PR 20-MAR-2000; 2000WO-US07377.

PR 30-MAR-2000; 2000WO-US08439.

PR 15-MAY-2000; 2000WO-US13358.

PR 17-MAY-2000; 2000WO-US13705.

PR 22-MAY-2000; 2000WO-US14042.

PR 30-MAY-2000; 2000WO-US14941.

PR 02-JUN-2000; 2000WO-US15264.

PR 28-JUL-2000; 2000WO-US20710.

PR 11-AUG-2000; 2000WO-US22031.

PR 23-AUG-2000; 2000WO-US23522.

PR 24-AUG-2000; 2000WO-US23328.

PR 08-NOV-2000; 2000WO-US30952.

PR 01-DEC-2000; 2000WO-US32678.

PR 28-FEB-2001; 2001WO-US06520.

PR 01-JUN-2001; 2001WO-US17800.

PR 20-JUN-2001; 2001WO-US19692.

PR 29-JUN-2001; 2001WO-US21066.

PR 09-JUL-2001; 2001WO-US21735.

PR 16-JUN-1997; 97US-049787F.

PR 17-OCT-1997; 97US-062250F.

PR 12-NOV-1997; 97US-065186F.

PR 13-NOV-1997; 97US-065311F.

PR 24-NOV-1997; 97US-066770F.

PR 25-FEB-1998; 98US-075945F.

PR 20-MAR-1998; 98US-078910F.

PR 28-APR-1998; 98US-083322F.

PR 07-MAY-1998; 98US-084600F.

PR 02-JUN-1998; 98US-087106F.

PR 02-JUN-1998; 98US-087609F.

PR 02-JUN-1998; 98US-087759F.

PR 03-JUN-1998; 98US-087827F.

PR 04-JUN-1998; 98US-088021F.

PR 04-JUN-1998; 98US-088025F.

PR 04-JUN-1998; 98US-088026F.

PR 04-JUN-1998; 98US-088028F.

PR 04-JUN-1998; 98US-088029F.

PR 04-JUN-1998; 98US-088030F.

PR 04-JUN-1998; 98US-088033F.

PR 05-JUN-1998; 98US-088326F.

PR 05-JUN-1998; 98US-088167F.

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PR 05-JUN-1998; 98US-088212F.

PR 05-JUN-1998; 98US-088217F.

PR 09-JUN-1998; 98US-088555F.

PR 10-JUN-1998; 98US-088734F.

PR 10-JUN-1998; 98US-088738F.

PR 10-JUN-1998; 98US-088742F.

PR 10-JUN-1998; 98US-088810F.

PR 10-JUN-1998; 98US-088824F.

PR 10-JUN-1998; 98US-088826F.

PR 11-JUN-1998; 98US-088858F.

PR 11-JUN-1998; 98US-088861F.

PR 12-JUN-1998; 98US-088876F.

PR 12-JUN-1998; 98US-089105F.

PR 16-JUN-1998; 98US-089440F.

PR 16-JUN-1998; 98US-089512F.

PR 16-JUN-1998; 98US-089514F.

PR 17-JUN-1998; 98US-089532F.

PR 17-JUN-1998; 98US-089538F.

PR 17-JUN-1998; 98US-089598F.

PR 17-JUN-1998; 98US-089599F.

PR 17-JUN-1998; 98US-089600F.

PR 17-JUN-1998; 98US-089653F.

PR 18-JUN-1998; 98US-089801F.

PR 18-JUN-1998; 98US-089907F.

PR 18-JUN-1998; 98US-089908F.

PR 28-AUG-2001; 2001US-0941992.

XX (GETH ) GENENTECH INC.

PA Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;

XX Ferrara N, Fong S, Gerber H, Gerritsen ME, Goddard A, Godowski PJ;

PI Grimaldi JC, Gurney AL, Kljavin IJ, Napier MA, Pan J, Paoni NF;

PI Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM, Wood WI;

PI Zhang Z;

XX WPI; 2003-247083/24.

DR N-PSDB; ABX80266.

XX Novel isolated PRO polypeptides e.g., PRO826, PRO1068, PRO1184, PRO1346

PT and PRO1375, which stimulate proliferation of stimulated T-lymphocytes  
 PT are therapeutically useful for enhancing immune response and in cancer  
 PT treatments -

XX Claim 12; Fig 151; 648pp; English.

XX The invention describes an isolated human PRO polypeptide. The PRO  
 CC polypeptides are useful in detecting PRO polypeptides in a sample, in  
 CC linking a bioactive molecule to a cell expressing a PRO polypeptide, and  
 CC in modulating at least one biological activity of a cell expressing a PRO  
 CC polypeptide. PRO1312 stimulates hypertrophy of neonatal heart and is thus  
 CC useful for treating cardiac insufficiency disorders. PRO1154 and PRO1186  
 CC stimulate adrenal cortical capillary endothelial growth, and PRO536,  
 CC PRO943, PRO828, PRO826, PRO1068 or PRO535, PRO826, PRO819, PRO1126,  
 CC PRO1360 and PRO1387 induce c-fos in endothelial cells, and are thus  
 CC useful for treating conditions or disorders where angiogenesis would be  
 CC beneficial, e.g. wound healing and antagonist of this polypeptide are  
 CC useful for treating cancerous tumours. PRO812 inhibits vascular  
 CC endothelial growth factor (VEGF) stimulated proliferation of endothelial  
 CC cells and is thus useful for inhibiting endothelial cell growth in  
 CC mammals which would be beneficial in inhibiting tumour growth. PRO826,  
 CC PRO1068, PRO1184, PRO1346 and PRO1375 stimulate proliferation of  
 CC stimulated T-lymphocytes and are therapeutically useful for enhancing  
 CC immune response. PRO828, PRO826, PRO1068 or PRO1132 enhance survival of  
 CC retinal neurons cells (PRO1132 is also enhances survival/proliferation of  
 CC rod photoreceptor cells) and therefore are useful for treating retinal  
 CC disorders of injuries, e.g. retinitis pigmentosa, AMD. PRO819, PRO813  
 CC and PRO11066 induce proliferation of mammalian kidney mesangial cells,  
 CC and therefore are useful for treating kidney disorders associated with  
 CC decreased mesangial cell function such as Berger disease or other  
 CC nephropathies associated with dermatitis, herpetiformis or Crohn's  
 CC disease. PRO1310, PRO844, PRO1312, PRO1192 and PRO1387 induce the  
 CC proliferation and/or redifferentiation of chondrocytes in culture and  
 CC are thus useful for treating sports injuries, and arthritis. This  
 CC is the amino acid sequence of a novel human PRO protein.

XX SQ Sequence 265 AA;

Query Match 100.0%; Score 1409; DB 24; Length 265;

Best Local Similarity 100.0%; Pred. No. 2.9e-131;

Matches 265; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 1 MGLPGLFCLAVLAASSFSKAREEITPVVSIAYKLVLEVPFKGRVWLITCCAPQPPPIITY 60

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Db 61 SLCTGKNIKVAKKVVKTHEPASFNINVLTKSSPDLLTYFCRASSTGAHVDSARLQHW 120

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Db 121 LWSKPVSELNANFTLQDRGAGPRVEMICQASSGSPPTNSLIGKDGQVHLOORCHROPA 180

Qy 181 NFSPLPQTSDFWFCQANNANVQHSALTVPVPGDGQKMDWQGLPESLIALPLVYRSTR 240

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Db 241 RLSEEFGGFRIGNGEVRGRKAAAM 265

RESULT 6

ABU59254

ID ABU59254 standard; Protein; 265 AA.

XX AC ABU59254;

XX AC ABU59254;

DT 22-APR-2003 (first entry)

XX Human secreted/transmembrane protein, #90.

XX

KW Human; PRO; secreted; transmembrane; pharmaceutical;  
 KW diagnostic; biosensor; bioindicator; tumour; therapeutic;  
 KW gene therapy; tumour-associated antigenic target; TAT; ADEPT;  
 KW antibody-dependent enzyme mediated prodrug therapy; cytostatic.

OS Homo sapiens.

PN US2003027162-A1.

XX 06-FEB-2003.

XX 15-NOV-2001; 2001US-0997428.

XX 05-NOV-1997; 97WO-US20069.

XX 16-SEP-1998; 98WO-US19330.

XX 17-SEP-1998; 98WO-US19437.

XX 07-OCT-1998; 98WO-US21141.

XX 01-DEC-1998; 98WO-US25108.

XX 05-JAN-1999; 99WO-US00106.

XX 08-MAR-1999; 99WO-US05028.

XX 02-JUN-1999; 99WO-US12252.

XX 15-SEP-1999; 99WO-US21090.

XX 30-NOV-1999; 99WO-US21547.

XX 01-DEC-1999; 99WO-US28313.

XX 01-DEC-1999; 99WO-US28301.

XX 16-DEC-1999; 99WO-US28634.

XX 20-DEC-1999; 99WO-US30095.

XX 05-JAN-2000; 2000WO-US00219.

XX 06-JAN-2000; 2000WO-US00376.

XX 11-FEB-2000; 2000WO-US03565.

XX 18-FEB-2000; 2000WO-US04341.

XX 22-FEB-2000; 2000WO-US04414.

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XX 02-MAR-2000; 2000WO-US05004.

XX 10-MAR-2000; 2000WO-US05841.

XX 15-MAY-2000; 2000WO-US13358.

XX 17-MAY-2000; 2000WO-US13705.

XX 22-MAY-2000; 2000WO-US14042.

XX 30-MAY-2000; 2000WO-US14941.

XX 02-JUN-2000; 2000WO-US15264.

XX 28-JUL-2000; 2000WO-US20710.

XX 11-AUG-2000; 2000WO-US22031.

XX 23-AUG-2000; 2000WO-US23522.

XX 24-AUG-2000; 2000WO-US23328.

XX 08-NOV-2000; 2000WO-US30952.

XX 01-DEC-2000; 2000WO-US32678.

XX 28-FEB-2001; 2001WO-US06520.

XX 01-JUN-2001; 2001WO-US17800.

XX 20-JUN-2001; 2001WO-US19692.

XX 29-JUN-2001; 2001WO-US21066.

XX 09-JUL-2001; 2001WO-US21735.

XX 16-JUN-1997; 97US-049787P.

XX 17-OCT-1997; 97US-062250P.

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XX 02-JUN-1998; 98US-087609P.

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XX 04-JUN-1998; 98US-088021P.

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PR 12-MAR-1999; 98US-123957P.
PR 23-JUN-1999; 99US-141037P.

Query Match 100.0%; Score 1409; DB 24; Length 265;
Best Local Similarity 100.0%; Pred. No. 2.9e-131;
Matches 265; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db 1 MGLPGLFCLAVLAASSFSKAREEETPVVSIAYKVLVFPKGRWVLTCCAPPPPPITY 60
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Db 61 SLCCGKNIAKVKVKTHTPEAFNLTAKSSPDLLTYFCRASSTSGAHVDSARLQMHW 120
QY 121 LMSKEVSELRANFTLQDRGAGPRVEMICOASSGSPPIYNSLIGKQGVHLOQRPCHROPA 180
Db 121 LMSKEVSELRANFTLQDRGAGPRVEMICOASSGSPPIYNSLIGKQGVHLOQRPCHROPA 180
QY 181 NFSFLPSQTSDFWQCAANNANVQHSALTVPVPGDGQKMDWQGLESPILALPYRSTR 240
Db 181 NFSFLPSQTSDFWQCAANNANVQHSALTVPVPGDGQKMDWQGLESPILALPYRSTR 240
QY 241 RLSEEEFGGFRIGNGEVRKKAAM 265
Db 241 RLSEEEFGGFRIGNGEVRKKAAM 265

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RESULT 7



ABU59403  
ID ABU59403 standard; Protein; 265 AA.  
XX AC ABU59403;  
XX DT 22-APR-2003 (first entry)  
XX DE Novel human secreted or transmembrane protein PRO791.  
XX KW Human; PRO; hypertrophy of neonatal heart; angiogenesis; wound healing;  
KW cardiac insufficiency disorder; cancer; tumour; immune response;  
KW adrenal cortical capillary endothelial growth; c-fos induction;  
KW vascular endothelial growth factor inhibition; VEGF inhibition;  
KW endothelial cell growth inhibitor; T-lymphocytes stimulation;  
KW retinal neurons cell survival; rod photoreceptor cell survival;  
KW retinal disorder; retinitis pigmentosa; kidney disorder;  
KW mammalian kidney mesangial cell proliferation; Berger disease;  
KW dermatitis; herpeticiformis; Crohn's disease; chondrocyte proliferation;  
KW chondrocyte redifferentiation; sports injury; arthritis.  
OS Homo sapiens.  
XX US2003027985-A1.  
XX PD 06-FEB-2003.  
XX PF 14-NOV-2001; 2001US-0990562.  
XX PR 05-NOV-1997; 97WO-US200069.  
PR 16-SEP-1998; 98WO-US19330.  
PR 17-SEP-1998; 98WO-US19437.  
PR 07-OCT-1998; 98WO-US21141.  
PR 01-DEC-1998; 98WO-US25108.  
PR 05-JAN-1999; 99WO-US00106.  
PR 08-MAR-1999; 99WO-US05028.  
PR 02-JUN-1999; 99WO-US12252.  
PR 15-SEP-1999; 99WO-US21090.  
PR 30-NOV-1999; 99WO-US21547.  
PR 01-DEC-1999; 99WO-US28313.  
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PR 08-NOV-2000; 2000WO-US30952.  
PR 01-DEC-2000; 2000WO-US32678.  
PR 28-FEB-2001; 2001WO-US06520.  
PR 01-JUN-2001; 2001WO-US17800.  
PR 20-JUN-2001; 2001WO-US19692.  
PR 29-JUN-2001; 2001WO-US21066.  
PR 09-JUL-2001; 2001WO-US21735.  
PR 16-JUN-1997; 97US-049787P.  
PR 17-OCT-1997; 97US-062250P.  
PR 12-NOV-1997; 97US-065186P.  
PR 13-NOV-1997; 97US-065311P.  
PR 24-NOV-1997; 97US-066770P.  
PR 25-FEB-1998; 98US-075945P.  
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PR 11-AUG-1998; 98US-096146P.
PR 12-AUG-1998; 98US-096329P.
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PR 26-AUG-1998; 98US-097978P.
PR 26-AUG-1998; 98US-097979P.
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Best Local Similarity 100.0%; Pred. No. 2.9e-131;
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QY 121 LWSKPVSELANFTLQDRGAGPRVEMTCQASSGSPPTITNSLIGKQGVHLQORPCHROPA 180
DB 121 LWSKPVSELANFTLQDRGAGPRVEMTCQASSGSPPTITNSLIGKQGVHLQORPCHROPA 180
QY 181 NFSFLPSQTSDFWFCQAANNANVQHSALTIVVPPGGQKMDWQGPLESFILALPLYRSTR 240
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Db 181 NFSFLPSQTSDFWFCQAANNANVQHSALTIVVPPGGQKMDWQGPLESFILALPLYRSTR 240
QY 241 RLSEEEFGGFRIGNGEVGRKKAAM 265
Db 241 RLSEEEFGGFRIGNGEVGRKKAAM 265

RESULT 8
ABU60538
ID ABU60538 standard; Protein; 265 AA.
XX AC ABU60538;
XX 01-MAY-2003 (first entry)
DE Human secreted/transmembrane protein, #90.
KW Human; PRO; secreted; transmembrane; signal peptide;
KW pharmaceutical; diagnostic; therapeutic; gene therapy.
XX OS Homo sapiens.
XX US2002160384-A1.
PD 31-OCT-2002.
XX PF 14-NOV-2001; 2001US-0992598.
XX 05-NOV-1997; 97WO-US20069.
PR 16-SEP-1998; 98WO-US19330.
PR 17-SEP-1998; 98WO-US19437.
PR 07-OCT-1998; 98WO-US21141.
PR 01-DEC-1998; 98WO-US25108.
PR 05-JAN-1999; 99WO-US00106.
PR 08-MAR-1999; 99WO-US05028.
PR 02-JUN-1999; 99WO-US12252.
PR 15-SEP-1999; 99WO-US21090.
PR 15-SEP-1999; 99WO-US21547.
PR 30-NOV-1999; 99WO-US28313.
PR 01-DEC-1999; 99WO-US28301.
PR 16-DEC-1999; 99WO-US28634.
PR 16-DEC-1999; 99WO-US30095.
PR 20-DEC-1999; 99WO-US30911.
PR 05-JAN-2000; 2000WO-US00219.
PR 06-JAN-2000; 2000WO-US00376.
PR 11-FEB-2000; 2000WO-US03565.
PR 18-FEB-2000; 2000WO-US04341.
PR 22-FEB-2000; 2000WO-US04414.
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PR 24-FEB-2000; 2000WO-US05004.
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PR 10-MAR-2000; 2000WO-US06319.
PR 15-MAR-2000; 2000WO-US06884.
PR 20-MAR-2000; 2000WO-US07377.
PR 30-MAR-2000; 2000WO-US08439.
PR 15-MAY-2000; 2000WO-US13358.
PR 17-MAY-2000; 2000WO-US13705.
PR 22-MAY-2000; 2000WO-US14042.
PR 30-MAY-2000; 2000WO-US14941.
PR 02-JUN-2000; 2000WO-US15264.
PR 28-JUL-2000; 2000WO-US20710.
PR 11-AUG-2000; 2000WO-US22031.
PR 23-AUG-2000; 2000WO-US23522.
PR 24-AUG-2000; 2000WO-US23328.
PR 08-NOV-2000; 2000WO-US30952.
PR 01-DEC-2000; 2000WO-US32678.
PR 28-FEB-2001; 2001WO-US06520.
PR 01-JUN-2001; 2001WO-US17800.
PR 20-JUN-2001; 2001WO-US19692.
PR 29-JUN-2001; 2001WO-US21066.
PR 09-JUL-2001; 2001WO-US21735.
PR 16-JUN-1997; 97US-049787P.
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PR 17-OCT-1997; 97US-062250P.  
 PR 12-NOV-1997; 97US-065186P.  
 PR 13-NOV-1997; 97US-065311P.  
 PR 24-NOV-1997; 97US-066770P.  
 PR 25-FEB-1998; 98US-075945P.  
 PR 20-MAR-1998; 98US-078910P.  
 PR 28-APR-1998; 98US-083322P.  
 PR 07-MAY-1998; 98US-084600P.  
 PR 28-MAY-1998; 98US-087106P.  
 PR 02-JUN-1998; 98US-087607P.  
 PR 02-JUN-1998; 98US-087609P.  
 PR 02-JUN-1998; 98US-087759P.  
 PR 03-JUN-1998; 98US-087827P.  
 PR 04-JUN-1998; 98US-088021P.  
 PR 04-JUN-1998; 98US-088025P.  
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 PR 04-JUN-1998; 98US-088028P.  
 PR 04-JUN-1998; 98US-088029P.  
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 PR 05-JUN-1998; 98US-088202P.  
 PR 05-JUN-1998; 98US-088212P.  
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 PR 12-JUN-1998; 98US-089105P.  
 PR 16-JUN-1998; 98US-089440P.  
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 PR 17-JUN-1998; 98US-089653P.  
 PR 18-JUN-1998; 98US-089801P.  
 PR 18-JUN-1998; 98US-089907P.  
 PR 18-JUN-1998; 98US-089908P.  
 PR 28-AUG-2001; 2001US-0941992.

(GETH ) GENENTECH INC.

PA Ashkenazi AJ, Baker KP, Borstein D, Deanoyers L, Eaton DL,  
 PI Ferrara N, Fong S, Gerber H, Gerritsen ME, Goddard A, Godowski PJ;  
 PI Grimaldi JC, Gurney AL, Kijavini IO, Napier MA, Pan J, Paoni NF;  
 PI Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM, Wood WI;  
 PI Zhang Z;

XX WPI: 2003-288106/28.

DR N-PSDB; ABX90244.

XX New transmembrane polypeptides and nucleic acids encoding the  
 PT polypeptides, useful in gene therapy, in chromosome identification, as  
 PT chromosome markers, or in generating probes -

XX Claim 12; Fig 151; 650pp; English.

XX The invention discloses isolated PRO secreted/transmembrane polypeptides  
 CC comprising a sequence without signal peptide and the nucleic acid  
 CC encoding them. The polypeptides can be used to raise antibodies that  
 CC specifically bind to the PRO polypeptide, for linking a bioactive  
 CC molecule to a cell expressing a PRO protein and for modulating at least  
 CC one biological activity of a cell. The PRO polypeptides or

CC polynucleotides are also useful in gene therapy, in chromosome  
 CC identification, as chromosome markers, or in generating probes. The PRO  
 CC polypeptides are useful as molecular markers for protein  
 CC electrophoresis, and the isolated nucleic acids may be used for  
 CC recombinantly expressing those markers. The PRO polypeptides and nucleic  
 CC acids may also be used in tissue typing. Anti-PRO antibodies are useful  
 CC in diagnostic assays for PRO, and in affinity purification of PRO from  
 CC recombinant cell culture or natural sources. The sequences presented in  
 CC ASU60478-ABU60624 are the PRO polynucleotides of the invention.  
 CC Note: The sequence data for this patent is also available in electronic  
 CC format from USPTO at seqdata.uspto.gov/sequence.html.

XX SQ Sequence 265 AA;

Query Match 100.0%; Score 1409; DB 24; Length 265;  
 Best Local Similarity 100.0%; Pred. No. 2.9e-131;  
 Matches 265; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
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 Db 241 RLSEEFEGFRGNGEVRGRKAAAM 265

RESULT 9

ABU58029

ID ABU58029 standard; Protein; 265 AA.

XX AC ABU58029;

XX DT 14-APR-2003 (first entry)

XX DE Human PRO polypeptide #61.

XX KW Human; PRO; cytostatic; tumour; cancer; breast; lung; stomach; liver;

XX KW horse; cow; dog; cat; sheep; pig; goat; rabbit; ADEPT;

XX KW antibody-dependent enzyme mediated prodrug therapy.

XX OS Homo sapiens.

XX PN US2003027163-A1.

XX PD 06-FEB-2003.

XX PF 15-NOV-2001; 2001US-0997666.

XX PR 05-NOV-1997; 97WO-US20069.

XX PR 16-SEP-1998; 98WO-US19330.

XX PR 17-SEP-1998; 98WO-US19437.

XX PR 07-OCT-1998; 98WO-US21141.

XX PR 01-DEC-1998; 98WO-US25108.

XX PR 05-JAN-1999; 99WO-US00106.

XX PR 08-MAR-1999; 99WO-US05028.

XX PR 02-JUN-1999; 99WO-US12252.

XX PR 15-SEP-1999; 99WO-US21090.

XX PR 15-SEP-1999; 99WO-US21547.

XX PR 30-NOV-1999; 99WO-US28313.

XX PR 01-DEC-1999; 99WO-US28301.

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PR	02-JUN-1998;	98US-087609P.	PR	07-JUL-1998;	98US-091978P.
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PR	12-JUN-1998;	98US-089440P.	PR	17-AUG-1998;	98US-096894P.
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PR	17-JUN-1998;	98US-089538P.	PR	18-AUG-1998;	98US-096950P.

DE	Human secreted/transmembrane protein, #90.
XX	
XX	Human; PRO; secreted; transmembrane; signal peptide;
KW	pharmaceutical; diagnostic; biosensor; bioreactor; tumour; therapeutic;
KW	colon cancer; lung cancer; breast cancer; cancer; gene therapy.

PR	11-JUN-1998;	98US-088861P.
PR	11-JUN-1998;	98US-088876P.
PR	12-JUN-1998;	98US-089105P.
PR	16-JUN-1998;	98US-089440P.
PR	16-JUN-1998;	98US-089512P.
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PR	17-JUN-1998;	98US-089532P.
PR	17-JUN-1998;	98US-089538P.
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PR	17-JUN-1998;	98US-089600P.
PR	17-JUN-1998;	98US-089653P.
PR	18-JUN-1998;	98US-089801P.
PR	18-JUN-1998;	98US-089907P.
PR	18-JUN-1998;	98US-089908P.
PR	28-AUG-2001;	2001US-0941992.
XX		
PA	(GETH ) GENENTECH INC.	
PI	Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;	
PI	Ferrara N, Fong S, Garber H, Gerritsen WE, Goddard A, Godowski PJ;	
PI	Grimaldi JC, Gurney AL, Kljavin IJ, Napier MA, Pan J, Paoni NF,	
PI	Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM, Wood WI;	
PI	Zhang Z;	
XX		
DR	WPI; 2003-155950/15.	
DR		
XX		
PT	New secreted and transmembrane PRO polypeptides (e.g. PRO183, PRO184,	
PT	PRO361 or PRO846) useful as targets for therapeutic intervention in	
PT	cancers (e.g. lung or breast cancers), or for diagnosing these cancers	
PT	-	
XX		
PS	Claim 12; Fig 151; 647pp; English.	
XX		
CC	The invention discloses isolated PRO secreted/transmembrane polypeptides	
CC	comprising a sequence without signal peptide and the nucleic acid	
CC	encoding them. The polypeptides can be used to raise antibodies that	
CC	specifically bind to the PRO polypeptide, for linking a bioactive	
CC	molecule to a cell expressing a PRO protein and for modulating at least	
CC	one biological activity of a cell. The PRO polypeptides or	
CC	polynucleotides are also useful as pharmaceuticals, diagnostics,	
CC	biosensors or bioreactors, for detecting or treating e.g. tumours in	
CC	mammals, e.g. humans, dogs, cats, cattle, horses, sheep, pigs, goats or	
CC	rabbats as targets for therapeutic intervention in certain cancers (e.g.	
CC	colon, lung or breast cancers) and diagnostic determination of the	
CC	presence of these cancers. The PRO polypeptides are also useful as	
CC	molecular weight markers or for chromosome identification. The PRO genes	
CC	are useful as hybridisation probes or for screening libraries of human	
CC	cDNA, genomic DNA or mRNA. The PRO genes may also be used in gene	
CC	therapy, particularly for replacing a defective gene. The sequences	
CC	presented in ABU58900-ABU59046 are the PRO polypeptides of the invention.	
XX		
SQ	Sequence 265 AA;	
	Query Match 100.0%; Score 1409; DB 24; Length 265;	
	Best Local Similarity 100.0%; Pred No. 2.9e-131;	
	Matches 265; Conservative 0; Mismatches 0; Indels 0; Gaps 0	
Qy	1 MGPLGFLCLAVLAASFSKAREEITPVVSIAYKLVFVFKGRWWLIITCCAPQPPPPITY 60	
Db	1 MGPLGFLCLAVLAASFSKAREEITPVVSIAYKLVFVFKGRWWLIITCCAPQPPPPITY 60	
Qy	61 SLCGTKNIKVAKKVVKTHERPASFNINVLTKSSPDLLTYFCRASSTSGAHVDARSARLOWME 120	
Db	61 SLCGTKNIKVAKKVVKTHERPASFNINVLTKSSPDLLTYFCRASSTSGAHVDARSARLOWME 120	
Qy	121 LWSKXPVELRANFTLQDRGAGPRVEMICQASSGGSPPIINSILIGDKGVHLQORPCRHOPA 180	
Db	121 LWSKXPVELRANFTLQDRGAGPRVEMICQASSGGSPPIINSILIGDKGVHLQORPCRHOPA 180	
Qy	181 NFSFLPQTSDFWCQANNANVOHSALTVPVPGDQRMDWGPLESFIALLPLYRSTR 240	
Db	181 NFSFLPQTSDFWCQANNANVOHSALTVPVPGDQRMDWGPLESFIALLPLYRSTR 240	

PR 13-NOV-1997; 97US-065311P.  
 PR 24-NOV-1997; 97US-066770P.  
 PR 25-FEB-1998; 98US-075945P.  
 PR 20-MAR-1998; 98US-078910P.  
 PR 28-APR-1998; 98US-083322P.  
 PR 07-MAY-1998; 98US-084600P.  
 PR 28-MAY-1998; 98US-087108P.  
 PR 02-JUN-1998; 98US-087607P.  
 PR 02-JUN-1998; 98US-087609P.  
 PR 02-JUN-1998; 98US-087759P.  
 PR 03-JUN-1998; 98US-087827P.  
 PR 04-JUN-1998; 98US-088021P.  
 PR 04-JUN-1998; 98US-088025P.  
 PR 04-JUN-1998; 98US-088026P.  
 PR 04-JUN-1998; 98US-088028P.  
 PR 04-JUN-1998; 98US-088029P.  
 PR 04-JUN-1998; 98US-088030P.  
 PR 04-JUN-1998; 98US-088033P.  
 PR 04-JUN-1998; 98US-088036P.  
 PR 05-JUN-1998; 98US-088167P.  
 PR 05-JUN-1998; 98US-088202P.  
 PR 05-JUN-1998; 98US-088212P.  
 PR 05-JUN-1998; 98US-088217P.  
 PR 09-JUN-1998; 98US-088655P.  
 PR 10-JUN-1998; 98US-088734P.  
 PR 10-JUN-1998; 98US-088738P.  
 PR 10-JUN-1998; 98US-088742P.  
 PR 10-JUN-1998; 98US-088810P.  
 PR 10-JUN-1998; 98US-088824P.  
 PR 10-JUN-1998; 98US-088826P.  
 PR 11-JUN-1998; 98US-088858P.  
 PR 11-JUN-1998; 98US-088861P.  
 PR 11-JUN-1998; 98US-088876P.  
 PR 12-JUN-1998; 98US-089105P.  
 PR 16-JUN-1998; 98US-089440P.  
 PR 16-JUN-1998; 98US-089512P.  
 PR 16-JUN-1998; 98US-089514P.  
 PR 17-JUN-1998; 98US-089532P.  
 PR 17-JUN-1998; 98US-089538P.  
 PR 17-JUN-1998; 98US-089598P.  
 PR 17-JUN-1998; 98US-089599P.  
 PR 17-JUN-1998; 98US-089600P.  
 PR 17-JUN-1998; 98US-089653P.  
 PR 18-JUN-1998; 98US-089801P.  
 PR 18-JUN-1998; 98US-089907P.  
 PR 18-JUN-1998; 98US-089908P.  
 PR 28-AUG-2001; 2001US-0941992.  
 (GETH ) GENENTECH LTD.  
 PA Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;  
 PI Ferrara N, Fong S, Gerber H, Gerritsen ME, Goddard A, Godowski PJ;  
 PI Grimaldi JC, Gurney AL, Kijavini IJ, Napier MA, Pan J, Paoni NF;  
 PI Roy MA, Stewart TA, Tamas D, Watanabe CK, Williams PM, Wood WI;  
 PI Zhang Z;  
 XX WPI; 2003-102117/09.  
 DR N-PSDB; ABX64090.  
 XX Novel secreted and transmembrane polypeptide for modulating biological  
 PT activity of cell expressing the polypeptide, identifying agonists or  
 PT antagonists of polypeptide, and as molecular weight markers -  
 XX Claim 12; Fig 151; 649pp; English.  
 XX The present invention relates to the isolation of novel human PRO  
 CC polypeptides, and the polynucleotide sequences encoding them. The  
 CC PRO polypeptides are secreted and transmembrane proteins. The PRO  
 CC polypeptides are useful for detecting other PRO polypeptides, for  
 CC linking bioactive molecules to cells expressing PRO polypeptides,  
 CC for modulating biological activities of cells expressing PRO  
 CC polypeptides, and for identifying agonists or antagonists.  
 CC The polynucleotide sequences encoding PRO polypeptides are useful as

CC hybridisation probes, in chromosome and gene mapping, in the generation  
 CC of antisense RNA and DNA, in the preparation of PRO polypeptides, for  
 CC generating transgenic animals or knockout animals, to construct  
 CC hybridisation probes for mapping the gene which encodes the PRO  
 CC polypeptide, and for the genetic analysis of individuals with genetic  
 CC disorders, in gene therapy, for chromosome identification, as  
 CC chromosome markers, and for generating probes for PCR, Northern  
 CC analysis, Southern analysis and Western analysis. ABU13860-ABU14006  
 CC represent the human PRO polypeptides of the invention.  
 CC Note: The sequence data for this patent was obtained in electronic  
 CC format directly from the USPTO web site at  
 CC seqdata.uspto.gov/psipdIDentry.html.  
 XX Sequence 265 AA;  
 SQ  
 Query Match 100.0%; Score 1409; DB 24; Length 265;  
 Best Local Similarity 100.0%; Pred. No. 2.9e-131; Indels 0; Gaps 0;  
 Matches 265; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 1 MGLPGLFCLAVLAASSFSKAREEEITPVVSIAYKVLEVFPKGRWVLTCCAPQPPPTTY 60  
 Db 1 MGLPGLFCLAVLAASSFSKAREEEITPVVSIAYKVLEVFPKGRWVLTCCAPQPPPTTY 60  
 QY 61 SLCGTNKNIVAKKVKVTHEPASNINLVTKSSPDLLTYFCRASSTGAHVDSARLQHW 120  
 Db 61 SLCGTNKNIVAKKVKVTHEPASNINLVTKSSPDLLTYFCRASSTGAHVDSARLQHW 120  
 QY 121 LWSKPVSELRANFTLQDRGAGPRVEMICQASSGSPPTITNSLIGKDGQVHLQORPCHRO 180  
 Db 121 LWSKPVSELRANFTLQDRGAGPRVEMICQASSGSPPTITNSLIGKDGQVHLQORPCHRO 180  
 QY 181 NFSFLPSQTSDFWFCQAAANNVQHSALTVPVPGGQKMDWQGPLESPIALPLVYRSTR 240  
 Db 181 NFSFLPSQTSDFWFCQAAANNVQHSALTVPVPGGQKMDWQGPLESPIALPLVYRSTR 240  
 QY 241 RLSEEFEGGFRGNGEVRGKKAAM 265  
 Db 241 RLSEEFEGGFRGNGEVRGKKAAM 265  
 RESULT 12  
 ABU10875  
 ID ABU10875 standard; Protein; 265 AA.  
 XX  
 AC ABU10875;  
 XX  
 DT 04-FEB-2003 (first entry)  
 XX  
 XX Human PRO polypeptide #61.  
 XX  
 KW Human; PRO; secreted polypeptide; transmembrane polypeptide;  
 KW toxin; radiolabel; cell death; gene mapping; chromosome mapping;  
 KW protein electrophoresis; genetic disorder; immunosuppressive; cytostatic;  
 KW antibacterial.  
 XX  
 OS Homo sapiens.  
 XX  
 PN US2002123463-A1.  
 XX  
 PD 05-SEP-2002.  
 XX  
 PF 19-NOV-2001; 2001US-0989732.  
 XX  
 PR 05-NOV-1997; 97WO-US20069.  
 PR 16-SEP-1998; 98WO-US19330.  
 PR 17-SEP-1998; 98WO-US19437.  
 PR 07-OCT-1998; 98WO-US21141.  
 PR 01-DEC-1998; 98WO-US25108.  
 PR 05-JAN-1999; 99WO-US00106.  
 PR 08-MAR-1999; 99WO-US05028.  
 PR 02-JUN-1999; 99WO-US12252.  
 PR 15-SEP-1999; 99WO-US21090.  
 PR 15-SEP-1999; 99WO-US21547.

PR	30-NOV-1999;	99WO-US28313.
PR	01-DEC-1999;	99WO-US28301.
PR	01-DEC-1999;	99WO-US28634.
PR	16-DEC-1999;	99WO-US30095.
PR	20-DEC-1999;	99WO-US30911.
PR	06-JAN-2000;	2000WO-US03219.
PR	06-JAN-2000;	2000WO-US03576.
PR	11-FEB-2000;	2000WO-US03565.
PR	18-FEB-2000;	2000WO-US04341.
PR	22-FEB-2000;	2000WO-US04414.
PR	24-FEB-2000;	2000WO-US04914.
PR	24-FEB-2000;	2000WO-US05004.
PR	10-MAR-2000;	2000WO-US05841.
PR	15-MAR-2000;	2000WO-US06319.
PR	30-MAR-2000;	2000WO-US06884.
PR	30-MAR-2000;	2000WO-US07377.
PR	15-MAY-2000;	2000WO-US08439.
PR	17-MAY-2000;	2000WO-US13358.
PR	22-MAY-2000;	2000WO-US13705.
PR	30-MAY-2000;	2000WO-US14042.
PR	02-JUN-2000;	2000WO-US14941.
PR	28-JUL-2000;	2000WO-US15264.
PR	11-AUG-2000;	2000WO-US20710.
PR	23-AUG-2000;	2000WO-US22031.
PR	24-AUG-2000;	2000WO-US23522.
PR	08-NOV-2000;	2000WO-US23328.
PR	01-DEC-2000;	2000WO-US30952.
PR	28-FEB-2001;	2001WO-US32678.
PR	01-JUN-2001;	2001WO-US06520.
PR	20-JUN-2001;	2001WO-US17800.
PR	29-JUL-2001;	2001WO-US19692.
PR	09-JUL-2001;	2001WO-US21066.
PR	16-JUN-1997;	97US-049787P.
PR	17-OCT-1997;	97US-062250P.
PR	12-NOV-1997;	97US-065186P.
PR	13-NOV-1997;	97US-065311P.
PR	24-NOV-1997;	97US-066770P.
PR	25-FEB-1998;	98US-075945P.
PR	20-MAR-1998;	98US-078910P.
PR	28-APR-1998;	98US-083322P.
PR	07-MAY-1998;	98US-084600P.
PR	28-MAY-1998;	98US-087106P.
PR	02-JUN-1998;	98US-087607P.
PR	02-JUN-1998;	98US-087609P.
PR	02-JUN-1998;	98US-087759P.
PR	03-JUN-1998;	98US-087827P.
PR	04-JUN-1998;	98US-088021P.
PR	04-JUN-1998;	98US-088025P.
PR	04-JUN-1998;	98US-088026P.
PR	04-JUN-1998;	98US-088028P.
PR	04-JUN-1998;	98US-088029P.
PR	04-JUN-1998;	98US-088030P.
PR	04-JUN-1998;	98US-088033P.
PR	04-JUN-1998;	98US-088326P.
PR	05-JUN-1998;	98US-088167P.
PR	05-JUN-1998;	98US-088202P.
PR	05-JUN-1998;	98US-088212P.
PR	05-JUN-1998;	98US-088217P.
PR	09-JUN-1998;	98US-088655P.
PR	10-JUN-1998;	98US-088734P.
PR	10-JUN-1998;	98US-088738P.
PR	10-JUN-1998;	98US-088742P.
PR	10-JUN-1998;	98US-088810P.
PR	10-JUN-1998;	98US-088824P.
PR	10-JUN-1998;	98US-088826P.
PR	11-JUN-1998;	98US-088858P.
PR	11-JUN-1998;	98US-088861P.
PR	11-JUN-1998;	98US-088876P.
PR	12-JUN-1998;	98US-089105P.
PR	16-JUN-1998;	98US-089440P.
PR	16-JUN-1998;	98US-089512P.
PR	16-JUN-1998;	98US-089514P.
PR	17-JUN-1998;	98US-089532P.
PR	17-JUN-1998;	98US-089538P.
PR	17-JUN-1998;	98US-089598P.
PR	17-JUN-1998;	98US-089599P.
PR	17-JUN-1998;	98US-089600P.
PR	17-JUN-1998;	98US-089653P.
PR	18-JUN-1998;	98US-089801P.
PR	18-JUN-1998;	98US-089907P.
PR	18-JUN-1998;	98US-089908P.
PR	28-AUG-2001;	2001US-094199Z.
XX	(GETH ) GENENTECH INC.	
PA	Ashkenazi AJ, Baker KP, Botstein D, Desnovers L, Eaton DL,	
PI	Ferrara N, Fong S, Gerber H, Gerritsen ME, Goddard A, Godowski PJ;	
PI	Grimaldi JC, Gurney AL, Kljavin IU, Napier MA, Pan J, Paoni NF;	
PI	Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM, Wood WI;	
PI	Zhang Z;	
XX	WPI; 2003-066810/06.	
DR	N-PSDB; ABX17054.	
DR		
XX		
PT	Novel secreted and transmembrane polypeptide for modulating biological	
PT	activity of cell expressing the polypeptide, identifying agonists or	
PT	antagonists of polypeptide, and as molecular weight markers -	
XX		
PS	Claim 12; Fig 151; 655pp; English.	
PS		
CC	The invention relates to a secreted and transmembrane polypeptide, termed	
CC	PRO polypeptide, and the polynucleotide encoding it. The polypeptide is	
CC	useful for detecting PRO polypeptides and for linking a bioactive	
CC	molecule to a cell expressing the above polypeptides, where the bioactive	
CC	molecule is a toxin, radiolabel or an antibody. The bioactive material	
CC	causes the death of the cell. The polypeptide is useful for identifying	
CC	agonists or antagonists of the PRO polypeptide, for preparing variants of	
CC	PRO, as a molecular weight marker for protein electrophoresis purposes	
CC	and the PRO polynucleotide is useful for recombinantly expressing those	
CC	markers. The polyn	



Db 241 RLSEEEFGFRIGNEVRGRKAAAM 265

RESULT 13

AAG89176

ID AAG89176 standard; Protein; 247 AA.

XX

AC AAG89176;

XX

DT 11-SEP-2001 (first entry)

XX

DE Human secreted protein, SEQ ID NO: 296.

XX

KW Human; secreted protein; gene therapy; vaccine; treatment; diagnosis;

KW GENSET.

XX

OS Homo sapiens.

XX

PN WO200142451-A2.

XX

PD 14-JUN-2001.

XX

PF 07-DEC-2000; 2000MO-IB01938.

XX

PR 08-DEC-1999; 99US-0169629.

PR

PR 06-MAR-2000; 2000US-0187470.

XX

PA (GEST ) GENSET.

XX

XX Dumas Milne Edwards J, Bougueleret L, Jobert S;

PI

PI WPI; 2001-367870/38.

DR

DR N-PSDB; AAH64779.

XX

XX Full length GENSET human nucleic acids encoding potentially secreted

PT proteins, useful in gene therapy and vaccination against a variety of

PT diseases, and for diagnosis of those diseases -

XX

XX Claim 21; Page 827-828; 921pp; English.

XX

CC The invention relates to full length GENSET human nucleic acids encoding

CC potentially secreted proteins. The nucleic acids and the polypeptides

CC they encode may be used in the prevention, treatment and diagnosis of

CC diseases associated with inappropriate GENSET gene expression. For

CC example, they are used to treat disorders associated with decreased

CC GENSET gene expression by rectifying mutations or deletions in a

CC patient's genome that affect the activity of GENSET or by supplementing

CC the patient's own production of GENSET polypeptides. Conversely,

CC antisense nucleic acid molecules may be administered to down regulate

CC GENSET expression by binding with the cells' own genes and preventing

CC their expression. The sense and antisense nucleic acids may also be

CC used as DNA probes in diagnostic assays to detect and quantitate the

CC presence of similar nucleic acid sequences in samples, and hence to

CC determine which patients may be in need of restorative therapy.

CC The GENSET polypeptides may be used as antigens in the production of

CC antibodies and in assays to identify modulators (agonists and

CC antagonists) of GENSET polypeptide expression and activity. The

CC present sequence is a GENSET polypeptide of the invention.

XX

XX Sequence 247 AA;

SQ

Query Match 81.5%; Score 1149; DB 22; Length 247;

Best Local Similarity 100.0%; Pred. No. 1.6e-105; Indels 0; Gaps 0;

Matches 215; Conservative 0; Mismatches 0;

QY 1 MGLPGLFCLAVLAASSFSKAREEETIPVVSIAKYKLVLEVPFKGRWLITCCAPQPPPPITY 60

Db 1 MGLPGLFCLAVLAASSFSKAREEETIPVVSIAKYKLVLEVPFKGRWLITCCAPQPPPPITY 60

QY 61 SLCGTKNIKVAKKVKTTPASFNLTLSKSSPDLITYFCRASSTSGAHVDSARLQHWHE 120

Db 61 SLCGTKNIKVAKKVKTTPASFNLTLSKSSPDLITYFCRASSTSGAHVDSARLQHWHE 120

QY 121 LWSKPVSELNANFTLQDRGAGPRVEMICQASSGSPPTITNSLIGKDGQVHLQORPCHROPA 180

Db 121 LWSKPVSELNANFTLQDRGAGPRVEMICQASSGSPPTITNSLIGKDGQVHLQORPCHROPA 180

QY 181 NFSFLPSQTSDFWFCQAANNANVOHSALTIVVPPGG 215

Db 181 NFSFLPSQTSDFWFCQAANNANVOHSALTIVVPPGG 215

RESULT 14

AAM24472

ID AAM24472 standard; Protein; 232 AA.

XX

AC AAM24472;

XX

DT 12-OCT-2001 (first entry)

XX

DE Human EST encoded protein SEQ ID NO: 1997.

XX

KW Human; sheep; pig; cow; fruit fly; yeast; hamster; macaque; horse;

KW tomato; monkey; dog; sea urchin; expressed sequence tag; EST;

KW diagnostics; forensic test; gene mapping; genetic disorder;

KW biodiversity; gene therapy; nutrition.

XX

OS Homo sapiens.

XX

PN WO200154477-A2.

XX

PD 02-AUG-2001.

XX

PF 25-JAN-2001; 2001WO-US02687.

XX

PR 25-JAN-2000; 2000US-0491404.

PR

PR 17-JUL-2000; 2000US-0617746.

PR

PR 03-AUG-2000; 2000US-0631451.

PR

PR 15-SEP-2000; 2000US-0663870.

XX

PA (HYSE-) HYSBQ INC.

XX

XX Tang YT, Liu C, Zhou P, Qian XB, Wang Z, Chen R, Asundi V;

PI

PI Cao Y, Drmanac RA, Zhang J, Werhman T;

XX

XX WPI; 2001-476164/51.

DR

DR N-PSDB; AAH99131.

XX

PT Isolated polypeptide for treatment of diseases, diagnostics, raising

PT antibodies and research use -

XX

XX Claim 20; Page 1266; 1275pp; English.

XX

CC The present invention provides the protein and coding sequences of novel

CC proteins from a variety of organisms, including human, dog, cat, horse,

CC cow, pig, hamster, monkey, macaque, yeast, bacteria, fruit fly, sea

CC urchin and tomato. These were derived from expressed sequence tags (ESTs)

CC from the organism of interest. They can be used in diagnostics,

CC forensics, gene mapping, identification of mutations, to assess

CC biodiversity and for nutritional purposes. The present sequence is a

CC protein of the invention.

XX

XX Sequence 232 AA;

SQ

Query Match 51.5%; Score 725.5; DB 22; Length 232;

Best Local Similarity 64.3%; Pred. No. 1.6e-63; Indels 13; Gaps 3;

Matches 146; Conservative 13; Mismatches 56;

QY 1 MGLPGLFCLAVLAASSFSKAREEETIPVVSIAKYKLVLEVPFKGRWLITCCAPQPPPPITY 60

Db 1 MGLPGLFCLAVLAASSFSKAREEETIPVVSIAKYKLVLEVPFKGRWLITCCAPQPPPPITY 60

QY 61 SLCGTKNIKVAKKVKTTPASFNLTLSKSSPDLITYFCRASSTSGAHVDSARLQHWHE 120

Db 61 SLCGTKNIKVAKKVKTTPASFNLTLSKSSPDLITYFCRASSTSGAHVDSARLQHWHE 120

```

QY 121 LWSKPVSELNFTLQDRGAGPRVEMICQASSGSPPTITNSLIGKDGQVHLQORPCHRPA 180
    |||:
Db 121 LWSRQRG-----RPQGGDDLPGLVGLQPTTYHQDPDRGAWGAPPAETWPFQACQLSPS 172

QY 181 NFGSLPQSOTSDWFWCQANNAVQHSALTIV-VPFGDQKMDWQGPLESP 229
    |||:
Db 173 ----CRAHRTWFCQACKQRCQSSTAPSQWLPGVVTQKMDWQGPPEP 218

RESULT 15
ABJ19682
ID ABJ19682 standard; Protein; 235 AA.
XX
AC ABJ19682;
XX
DT 03-APR-2003 (first entry)
DE Human secreted protein amino acid sequence - SEQ ID No 148.
XX
KW Human; protein therapy; immediate hypersensitivity disease;
KW allergic disorder; asthmatic disorder; gene therapy; secreted protein;
KW hay fever; allergic conjunctivitis; allergic rhinitis;
KW binding partner identification; chromosome identification;
KW radiation hybrid mapping; long-range restriction mapping.
XX
OS Homo sapiens.
XX
PN WO200277186-A2.
XX
PD 03-OCT-2002.
XX
PF 26-MAR-2002; 2002WO-US09239.
XX
PR 27-MAR-2001; 2001US-278650P.
PR 12-SEP-2001; 2001US-0950082.
PR 12-SEP-2001; 2001US-0950083.
XX
PA (HUMA-) HUMAN GENOME SCI INC.
XX
PI Rosen CA, Ruben SM;
XX
XX WPI; 2003-175010/17.
XX
XX Use of human secreted proteins and nucleic acids for preparing a
PT diagnostic or pharmaceutical composition for diagnosing or treating
PT allergic or asthmatic disorders, e.g. asthma, hay fever, or allergic
PT conjunctivitis or rhinitis -
XX
PS Claim 1; Page 632-633; 823pp; English.
XX
XX The invention comprises the amino acid and coding sequences of human
CC secreted proteins. The DNA and protein sequences of the invention are
CC useful for the diagnosis and treatment of allergic disorders, asthmatic
CC disorders and immediate hypersensitivity diseases (e.g. hay fever,
CC allergic conjunctivitis and allergic rhinitis). The proteins of the
CC invention are also useful for identifying a binding partner. The nucleic
CC acids of the invention are also useful for chromosome identification.
CC radiation hybrid mapping or long-range restriction mapping. The present
CC amino acid sequence represents a human secreted protein of the invention.
XX
SQ Sequence 235 AA;
Query Match 46.5%; Score 654.5; DB 24; Length 235;
Best Local Similarity 59.3%; Pred. No. 1.8e-56;
Matches 147; Conservative 10; Mismatches 44; Indels 47; Gaps 6;

QY 1 MGLPGLFCLAVLAASFSKAREBEITPVVSIAYKVLVFPFKGRWVLTCCAPQPPPTTY 60
Db 1 MGLPGLFCLAVLAASFSKAREBEITPVVSIAYKVLVFPFKGRWVLTCCAPQPPPTTY 60

QY 61 SLCGTKNIKVAKKVKVTHEPASFNLVTLKSSPLLTYFCRASSTSGAHVDSARLQHWHE 120
Db 61 SLCGTKNIKVAKKVKVTHEPASFNLVTLKSSPLLTYFCRASSTSGAHVDSARLQHWHE 120

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```

QY 121 LMSKPVSELNFTLQDRGAGPRVEMICQASSGSPPTITNSLIGKDGQVHLQORPCHR--- 177
    |||:
Db 121 LMSR-----QRRPQGGDDLPGLVGLQPTTYHQDPDRGWA 154

QY 178 -OPANFSLPQSOTSDWFWCQANNAVQHSALTIVVPFGDQKMDWQGPLESFILALPLY 236
    |||:
Db 155 GPPA-----AETMPQACQLLLPAEPDGLVLV--PGCKR-----QCPAQRPHSGAP-- 200

QY 237 RSTRRLSE 244
    |||:
Db 201 ---RRVXQ 205

RESULT 16
ABP99572
ID ABP99572 standard; Protein; 235 AA.
XX
AC ABP99572;
XX
DT 26-MAR-2003 (first entry)
DE Human secreted protein SEQ ID NO 516.
XX
KW Human; secreted protein; nootropic; neuroprotective; cytostatic;
KW virucide; dermatological; immunosuppressive; antiinflammatory; anti-HIV;
KW vulnery; antibacterial; antiparkinsonian; anticlcking; antianemic;
KW antiarthritic; cancer; antirheumatic; hepatotropic; cerebroprotective;
KW antiinflammatory; antiallergic; antidiabetic; antilulcer; anticonvulsant;
KW antifungal; antiparasitic; cardiant; immune disorder; infection; vaccine;
KW cardiovascular disorder; neurological disease; nephrotropic;
KW gene therapy.
XX
OS Homo sapiens.
XX
PN WO200277186-A2.
XX
PD 03-OCT-2002.
XX
PF 26-MAR-2002; 2002WO-US09188.
XX
PR 27-MAR-2001; 2001US-278650P.
PR 12-SEP-2001; 2001US-0950082.
PR 12-SEP-2001; 2001US-0950083.
XX
PA (HUMA-) HUMAN GENOME SCI INC.
XX
PI Rosen CA, Ruben SM;
XX
XX WPI; 2003-040583/03.
XX
XX N-PSDB; AB266993.
XX
XX New human secreted proteins encoded by genes contained in cDNA clones
PT (e.g. HGCAC19), useful for preventing, treating or diagnosing e.g.
PT AIDS, multiple sclerosis, herpes virus, leukemia, tick-borne
PT encephalitis or West Nile fever -
XX
PS Claim 1; Page 1422; 2423pp; English.
XX
XX The invention relates to novel human genes (ABZ66891-ABZ68209) and the
CC encoded secreted proteins (ABP99470-ABP99872) useful for preventing,
CC treating or ameliorating medical conditions e.g. by protein or gene
CC therapy. The genes are isolated from a range of human tissues disclosed
CC in the specification. The nucleic acids, proteins, antibodies and
CC (antagonists are useful in the diagnosis, treatment and prevention of:
CC (a) cancer, e.g. breast and ovarian cancer and other cancers of the
CC adrenal gland, bone, bone marrow, breast, gastrointestinal tract, liver,
CC lung or urogenital; (b) immune disorders e.g. Addison's disease,
CC allergies, autoimmune haemolytic anaemia, autoimmune thyroiditis,
CC diabetes mellitus, Crohn's disease, multiple sclerosis, rheumatoid
CC arthritis and ulcerative colitis; (c) cardiovascular disorders such as
CC myocardial ischaemias; (d) wound healing; (e) neurological diseases e.g.
CC cerebral anoxia and epilepsy; and (f) infectious diseases such as viral,

```

CC bacterial, fungal and parasitic infections.  
 XX Sequence 235 AA;  
 SQ Query Match 46.5%; Score 654.5; DB 24; Length 235;  
 Best Local Similarity 59.3%; Pred. No. 1.8e-56;  
 Matches 147; Conservative 10; Mismatches 44; Indels 47; Gaps 6;

QY 1 MGLPGLFCLAVLAASSFSKAREEITPVVSIAYKVLVFPKGRVWLITCCAPQPPPPITY 60  
 Db 1 MGLPGLFCLAVLAASSFSKAREEITPVVSIAYKVLVFPKGRVWLITCCAPQPPPPITY 60  
 QY 61 SLCGTKNIKVAKKVKTTPVSIAYKVLVFPKGRVWLITCCAPQPPPPITY 120  
 Db 61 SLCGTKNIKVAKKVKTTPVSIAYKVLVFPKGRVWLITCCAPQPPPPITY 120  
 QY 121 LWSKPVSELNFTLQDRGAGPRVEMICQASSGSPFITNSLIGKDGQVHLQQRPCHR-- 177  
 Db 121 LWSR-----QGRPGQGGDLPGVLGQTYHQPDREGWA 154  
 QY 178 -QANFSLPSQTSDFWFCQANNANVOHSALTVPFGGQKMDWQGPLESFILALPLY 236  
 Db 155 GPPA-----AETMPQAAQCLLLPAEPDGLVLV--PGCKQR-----QCPAQRPHSGAP-- 200  
 QY 237 RSTRRLSE 244  
 Db 201 ---RRVXQ 205

RESULT 17  
 AAB39216  
 ID AAB39216 standard; Protein; 236 AA.  
 XX AAB39216;  
 AC  
 XX 02-FEB-2001 (first entry)  
 DT Human secreted protein sequence encoded by gene 38 SEQ ID NO:96.  
 DE  
 XX Human; secreted protein; immunosuppressive; antiarthritic; antirheumatic;  
 KW antiproliferative; cytostatic; cardiant; vasotropic; cerebroprotective;  
 KW neotopic; neuroprotective; antibacterial; virucide; fungicide; neoplasm;  
 KW ophthalmological; autoimmune disease; rheumatoid arthritis; angiogenesis;  
 KW hyperproliferative disorder; cardiovascular disorder; infection;  
 KW cerebrovascular disorder; nervous system disorder; ocular disorder;  
 KW wound healing; chemotaxis.  
 XX  
 OS Homo sapiens.  
 XX  
 XX W0200056754-A1.  
 XX  
 XX 28-SEP-2000.  
 XX  
 XX 16-MAR-2000; 2000WO-US06792.  
 XX  
 XX 19-MAR-1999; 99US-0125362.  
 XX 10-DEC-1999; 99US-0169980.  
 XX  
 XX (HUMA-) HUMAN GENOME SCI INC.  
 XX  
 XX Rosen GA, Ruben SM, Komatsoulis G;  
 XX  
 XX WPI; 2000-579483/54.  
 XX N-PSDB; AAC74260.  
 XX  
 XX Isolated nucleic acid molecule encoding a human secreted protein is  
 PT used in preventing, treating or ameliorating a medical condition -  
 XX  
 XX Claim 11; Page 386-387; 434pp; English.  
 XX  
 XX The polynucleotide sequences given in AAC74223-C74279 encode the human  
 CC secreted proteins represented in AAB39179-B39226. Sequences  
 CC AAB39227-B39308 are alternative proteins encoded by the genes, and also

CC protein sequences with which they share homology. The proteins have  
 CC activities based on the tissues and cells in which they are expressed.  
 CC Examples of activities include: immunosuppressive; antiarthritic;  
 CC antirheumatic; antiproliferative; cytostatic; cardiant; vasotropic;  
 CC cerebroprotective; neotopic; neuroprotective; antibacterial; virucide;  
 CC fungicide; and ophthalmological. The human secreted proteins,  
 CC polynucleotides, antagonists and agonists of the invention may be useful  
 CC in the treatment, prevention, and/or diagnosis of various disease,  
 CC disorders and conditions such as autoimmune diseases e.g. rheumatoid  
 CC arthritis, hyperproliferative disorders e.g. neoplasms of the breast or  
 CC liver, cardiovascular disorders e.g. cardiac arrest, cerebrovascular  
 CC disorders e.g. cerebral ischaemia, angiogenesis, nervous system disorders  
 CC e.g. Alzheimer's disease, infections caused by bacteria, viruses and  
 CC fungi and ocular disorders e.g. corneal infection. The polypeptides can  
 CC also be used to aid wound healing and epithelial cell proliferation, to  
 CC regenerate tissues, maintain organs before transplantation, in  
 CC chemotaxis and as a food additive or preservative e.g. to increase  
 CC storage capabilities. Sequences AAC74214-C74222 and AAB39178 are used  
 CC during the isolation and characterisation of the genes of the invention.  
 XX SQ Sequence 236 AA;

Query Match 46.5%; Score 654.5; DB 21; Length 236;  
 Best Local Similarity 59.3%; Pred. No. 1.8e-56;  
 Matches 147; Conservative 10; Mismatches 44; Indels 47; Gaps 6;

QY 1 MGLPGLFCLAVLAASSFSKAREEITPVVSIAYKVLVFPKGRVWLITCCAPQPPPPITY 60  
 Db 1 MGLPGLFCLAVLAASSFSKAREEITPVVSIAYKVLVFPKGRVWLITCCAPQPPPPITY 60  
 QY 61 SLCGTKNIKVAKKVKTTPVSIAYKVLVFPKGRVWLITCCAPQPPPPITY 120  
 Db 61 SLCGTKNIKVAKKVKTTPVSIAYKVLVFPKGRVWLITCCAPQPPPPITY 120  
 QY 121 LWSKPVSELNFTLQDRGAGPRVEMICQASSGSPFITNSLIGKDGQVHLQQRPCHR-- 177  
 Db 121 LWSR-----QGRPGQGGDLPGVLGQTYHQPDREGWA 154  
 QY 178 -QANFSLPSQTSDFWFCQANNANVOHSALTVPFGGQKMDWQGPLESFILALPLY 236  
 Db 155 GPPA-----AETMPQAAQCLLLPAEPDGLVLV--PGCKQR-----QCPAQRPHSGAP-- 200  
 QY 237 RSTRRLSE 244  
 Db 201 ---RRVXQ 205

RESULT 18  
 AAU21256  
 ID AAU21256 standard; Protein; 175 AA.  
 XX AAU21256;  
 AC  
 XX 17-DEC-2001 (first entry)  
 DT Human novel foetal antigen, SEQ ID NO 1500.  
 DE  
 XX Human; foetal tissue antigen; antiinflammatory; neuroprotective;  
 KW immunomodulator; cardiovascular; cytostatic; nephrothropic;  
 KW cardiovascular; autoimmune disease; rheumatoid arthritis;  
 KW hyperproliferative disorder; breast neoplasm; cancer;  
 KW cardiovascular disorder; cardiac arrest; cerebrovascular disorder;  
 KW cerebral ischaemia; angiogenesis; nervous system disorder;  
 KW Alzheimer's disease; infection; ocular disorder; corneal infection;  
 KW wound healing; epithelial cell proliferation; food additive.  
 XX  
 OS Homo sapiens.  
 XX  
 XX W0200155312-A2.  
 XX  
 XX 02-AUG-2001.  
 XX  
 XX 17-JAN-2001; 2001WO-US01321.

XX PR 31-JAN-2000; 2000US-0179065.  
 PR 04-FEB-2000; 2000US-0180628.  
 PR 24-FEB-2000; 2000US-0184664.  
 PR 02-MAR-2000; 2000US-0186350.  
 PR 16-MAR-2000; 2000US-0189874.  
 PR 17-MAR-2000; 2000US-0190076.  
 PR 18-APR-2000; 2000US-0198123.  
 PR 19-MAY-2000; 2000US-0205515.  
 PR 07-JUN-2000; 2000US-0209457.  
 PR 28-JUN-2000; 2000US-0214886.  
 PR 30-JUN-2000; 2000US-0215135.  
 PR 07-JUL-2000; 2000US-0216647.  
 PR 07-JUL-2000; 2000US-0216880.  
 PR 11-JUL-2000; 2000US-0217487.  
 PR 11-JUL-2000; 2000US-0217496.  
 PR 14-JUL-2000; 2000US-0218290.  
 PR 26-JUL-2000; 2000US-0220963.  
 PR 26-JUL-2000; 2000US-0220964.  
 PR 14-AUG-2000; 2000US-0224518.  
 PR 14-AUG-2000; 2000US-0224519.  
 PR 14-AUG-2000; 2000US-0225213.  
 PR 14-AUG-2000; 2000US-0225214.  
 PR 14-AUG-2000; 2000US-0225266.  
 PR 14-AUG-2000; 2000US-0225267.  
 PR 14-AUG-2000; 2000US-0225268.  
 PR 14-AUG-2000; 2000US-0225270.  
 PR 14-AUG-2000; 2000US-0225277.  
 PR 14-AUG-2000; 2000US-0225757.  
 PR 14-AUG-2000; 2000US-0225758.  
 PR 14-AUG-2000; 2000US-0225759.  
 PR 18-AUG-2000; 2000US-0226279.  
 PR 22-AUG-2000; 2000US-0226681.  
 PR 22-AUG-2000; 2000US-0226868.  
 PR 22-AUG-2000; 2000US-0227182.  
 PR 23-AUG-2000; 2000US-0227009.  
 PR 30-AUG-2000; 2000US-0228924.  
 PR 01-SEP-2000; 2000US-0229287.  
 PR 01-SEP-2000; 2000US-0229287.  
 PR 01-SEP-2000; 2000US-0229343.  
 PR 01-SEP-2000; 2000US-0229344.  
 PR 05-SEP-2000; 2000US-0229345.  
 PR 05-SEP-2000; 2000US-0229509.  
 PR 06-SEP-2000; 2000US-0229513.  
 PR 06-SEP-2000; 2000US-0230437.  
 PR 06-SEP-2000; 2000US-0230438.  
 PR 08-SEP-2000; 2000US-0231242.  
 PR 08-SEP-2000; 2000US-0231243.  
 PR 08-SEP-2000; 2000US-0231244.  
 PR 08-SEP-2000; 2000US-0231413.  
 PR 08-SEP-2000; 2000US-0231414.  
 PR 08-SEP-2000; 2000US-0232080.  
 PR 08-SEP-2000; 2000US-0232081.  
 PR 12-SEP-2000; 2000US-0231968.  
 PR 14-SEP-2000; 2000US-0232397.  
 PR 14-SEP-2000; 2000US-0232398.  
 PR 14-SEP-2000; 2000US-0232399.  
 PR 14-SEP-2000; 2000US-0232400.  
 PR 14-SEP-2000; 2000US-0232401.  
 PR 14-SEP-2000; 2000US-0233063.  
 PR 14-SEP-2000; 2000US-0233064.  
 PR 14-SEP-2000; 2000US-0233065.  
 PR 21-SEP-2000; 2000US-0234223.  
 PR 21-SEP-2000; 2000US-0234274.  
 PR 25-SEP-2000; 2000US-0234997.  
 PR 25-SEP-2000; 2000US-0234998.  
 PR 26-SEP-2000; 2000US-0234984.  
 PR 27-SEP-2000; 2000US-0235634.  
 PR 27-SEP-2000; 2000US-0235836.  
 PR 29-SEP-2000; 2000US-0236327.  
 PR 29-SEP-2000; 2000US-0236327.  
 PR 29-SEP-2000; 2000US-0236367.  
 PR 29-SEP-2000; 2000US-0236368.  
 PR 29-SEP-2000; 2000US-0236369.  
 PR 29-SEP-2000; 2000US-0236370.

PR 02-OCT-2000; 2000US-0236802.  
 PR 02-OCT-2000; 2000US-0237037.  
 PR 02-OCT-2000; 2000US-0237038.  
 PR 02-OCT-2000; 2000US-0237039.  
 PR 02-OCT-2000; 2000US-0237040.  
 PR 13-OCT-2000; 2000US-0239935.  
 PR 13-OCT-2000; 2000US-0239937.  
 PR 20-OCT-2000; 2000US-0240960.  
 PR 20-OCT-2000; 2000US-0241221.  
 PR 20-OCT-2000; 2000US-0241785.  
 PR 20-OCT-2000; 2000US-0241786.  
 PR 20-OCT-2000; 2000US-0241787.  
 PR 20-OCT-2000; 2000US-0241808.  
 PR 20-OCT-2000; 2000US-0241809.  
 PR 20-OCT-2000; 2000US-0241826.  
 PR 01-NOV-2000; 2000US-0244617.  
 PR 08-NOV-2000; 2000US-0246474.  
 PR 08-NOV-2000; 2000US-0246475.  
 PR 08-NOV-2000; 2000US-0246476.  
 PR 08-NOV-2000; 2000US-0246477.  
 PR 08-NOV-2000; 2000US-0246478.  
 PR 08-NOV-2000; 2000US-0246523.  
 PR 08-NOV-2000; 2000US-0248524.  
 PR 08-NOV-2000; 2000US-0248525.  
 PR 08-NOV-2000; 2000US-0248526.  
 PR 08-NOV-2000; 2000US-0248527.  
 PR 08-NOV-2000; 2000US-0248528.  
 PR 08-NOV-2000; 2000US-0248532.  
 PR 08-NOV-2000; 2000US-0248609.  
 PR 08-NOV-2000; 2000US-0248610.  
 PR 08-NOV-2000; 2000US-0248611.  
 PR 08-NOV-2000; 2000US-0248613.  
 PR 17-NOV-2000; 2000US-0249207.  
 PR 17-NOV-2000; 2000US-0249208.  
 PR 17-NOV-2000; 2000US-0249209.  
 PR 17-NOV-2000; 2000US-0249210.  
 PR 17-NOV-2000; 2000US-0249211.  
 PR 17-NOV-2000; 2000US-0249212.  
 PR 17-NOV-2000; 2000US-0249213.  
 PR 17-NOV-2000; 2000US-0249214.  
 PR 17-NOV-2000; 2000US-0249215.  
 PR 17-NOV-2000; 2000US-0249216.  
 PR 17-NOV-2000; 2000US-0249217.  
 PR 17-NOV-2000; 2000US-0249218.  
 PR 17-NOV-2000; 2000US-0249244.  
 PR 17-NOV-2000; 2000US-0249245.  
 PR 17-NOV-2000; 2000US-0249245.  
 PR 17-NOV-2000; 2000US-0249265.  
 PR 17-NOV-2000; 2000US-0249297.  
 PR 17-NOV-2000; 2000US-0249299.  
 PR 17-NOV-2000; 2000US-0249300.  
 PR 01-DEC-2000; 2000US-0250160.  
 PR 01-DEC-2000; 2000US-0250391.  
 PR 05-DEC-2000; 2000US-0251030.  
 PR 05-DEC-2000; 2000US-0251988.  
 PR 05-DEC-2000; 2000US-0256719.  
 PR 06-DEC-2000; 2000US-0251479.  
 PR 08-DEC-2000; 2000US-0251856.  
 PR 08-DEC-2000; 2000US-0251868.  
 PR 08-DEC-2000; 2000US-0251869.  
 PR 08-DEC-2000; 2000US-0251989.  
 PR 08-DEC-2000; 2000US-0251990.  
 PR 11-DEC-2000; 2000US-0254097.  
 PR 05-JAN-2001; 2001US-0259678.

XX (HUMA-) HUMAN GENOME SCI INC.  
 XX PA  
 XX PI Rosen CA, Barash SC, Ruben SM;  
 XX DR WPI; 2001-488782/53.  
 XX DR N-PSDB; AAS34076.  
 XX PI New polynucleotides and polypeptides for diagnosing, treating,



Db 602 - HEDVTLGSSAPSGGSEAFNLSLTAHSGN---YSCAANNGLVAQHSHTISLSVIVPV- 656

QY 123 SKPVSELRANFTLQDRGAGPRVEMICQASSGSPPTINSLIGKDGQVHLQQRPCHPQANF 182

Db 657 SRPILTFRA--PRAQAVVGDLELHCEALRGSSPILYWFYHEDVTLGKISAP-SGGGASF 713

QY 183 SF-LPSQTSDFWFCQAANNANVQHSALTVPVPGDQDMEDWQGPLES 228

Db 714 NLSLTTEHSGIYSCADNGLQAEQRSEMTVLKVA-----EWALPTSS 755

RESULT 20

AAB82315

ID AAB82315 standard; Protein; 977 AA.

AC AAB82315;

XX 23-JUL-2001 (first entry)

XX Human immunoglobulin receptor isoform IRTA2c.

XX Immunoglobulin superfamily receptor translocation associated; IRTA;

KW IRTA2c; human; immunoglobulin receptor; FC receptor; melanoma;

KW lymphoma; myeloma; B cell malignancy; cancer; chromosome 1q21;

KW diagnosis; therapy.

XX Homo sapiens.

XX Key

FT Peptide

FT 1..15

FT /label= Signal\_peptide

FT 15..977

FT /label= Mature\_protein

FT 851..873

FT /note= "transmembrane domain"

FT 132..134

FT /note= "Asn is N-glycosylated"

FT 383..385

FT /note= "Asn is N-glycosylated"

FT 621..623

FT /note= "Asn is N-glycosylated"

FT 631..633

FT /note= "Asn is N-glycosylated"

FT 714..716

FT /note= "Asn is N-glycosylated"

FT 795..797

FT /note= "Asn is N-glycosylated"

FT 806..808

FT /note= "Asn is N-glycosylated"

FT 816..818

FT /note= "Asn is N-glycosylated"

FT 843..845

FT /note= "Asn is N-glycosylated"

FT 899..902

FT /note= "putative consensus Src-homology 2 (SH2) binding domain"

FT 924..927

FT /note= "putative consensus Src-homology 2 (SH2) binding domain"

FT 954..957

FT /note= "putative consensus Src-homology 2 (SH2) binding domain"

PN WO200138490-A2.

XX 31-MAY-2001.

XX 28-NOV-2000; 2000WO-US32403.

XX 29-NOV-1999; 99US-0168151.

XX (UYCO ) UNIV COLUMBIA NEW YORK.

PI Dalla-Favera R;

XX WPI; 2001-355921/37.

DR N-PSDB; AAF30952.

XX New genes encoding immunoglobulin receptor, Immunoglobulin super

FT Receptor Translocation Associated proteins, used to treat B cell

PT malignancies including lymphomas and multiple myeloma -

XX Claim 3; Fig 18B-1-18B-2; 72pp; English.

XX The present sequence is that of the novel human immunoglobulin

CC receptor, immunoglobulin superfamily receptor translocation

CC associated protein isoform 2c (IRTA2c), an FC receptor involved in

CC the pathogenesis of lymphoma and melanoma. Efforts to identify

CC genes involved in chromosomal aberrations affecting band 1q21 in

CC multiple myeloma and B cell lymphoma led to the discovery of IRTA2

CC and IRTA1 (see AAB82312) as founding members of a novel subfamily

CC of related receptors within the immunoreceptor family. The IRTA2

CC locus is transcribed into 3 major mRNA isoforms, IRTA2a, IRTA2b and

CC IRTA2c (see also AAB82313 and AAB82314). IRTA2c is the longest

CC isoform. It is a type I transmembrane glycoprotein. Each SH2

CC binding site agrees with the immune receptor tyrosine-based inhibition

CC motif (ITIM) consensus and is encoded by a separate exon. The IRTA

CC genes display a specific pattern of expression in mature B cells.

CC IRTA2 is expressed in GC centrocytes and in perifollicular cells,

CC which may include immunoblasts and memory cells. The invention

CC provides IRTA nucleic acids and proteins, and antibodies directed to

CC epitopes of IRTA proteins. Methods are claimed for: detecting a B

CC cell malignancy comprising a 1q21 chromosomal rearrangement using a

CC nucleic acid molecule that specifically hybridises with a unique

CC sequence of human IRTA1-5; and treating a subject having a B

CC cell cancer by administering an anti-IRTA antibody or an antisense

CC oligonucleotide that specifically hybridises to IRTA mRNA so as

CC to prevent overexpression of IRTA protein and hence to arrest

CC cell growth or induce cell death of cancer cells expressing IRTA.

CC The B cell cancer is selected from B cell lymphoma, mantle cell

CC lymphoma, multiple myeloma, Burkitt's lymphoma, marginal zone

CC lymphoma, diffuse large cell lymphoma and follicular lymphoma. The

CC B cell lymphoma is selected from mucosa-associated-lymphoid tissue

CC B cell lymphoma or non-Hodgkin's lymphoma.

XX Sequence 977 AA;

SQ

Query Match 7.8%; Score 110.5; DB 22; Length 977;

Best Local Similarity 24.6%; Pred. No. 0.13;

Matches 57; Conservative 41; Mismatches 105; Indels 29; Gaps 11;

QY 13 AASSFSKAREBEITPVVSIAYK----VLEVPKGRWL-----ITCCAPQPPPTIYSLC 63

Db 543 ADNGFGPQSRSEVSLFVTPVPSRPLTLRV-PRAQAVVGDLELHCEAPRGSPILYWFY 601

QY 64 GTKNLKVAKVKVKTPEPASFNINVLTKSSPDLITVFCRASSTSGA-HVDSARLOMHWEI 122

Db 602 -HEDVTLGSSAPSGGSEAFNLSLTAHSGN---YSCAANNGLVAQHSHTISLSVIVPV- 656

QY 123 SKPVSELRANFTLQDRGAGPRVEMICQASSGSPPTINSLIGKDGQVHLQQRPCHPQANF 182

Db 657 SRPILTFRA--PRAQAVVGDLELHCEALRGSSPILYWFYHEDVTLGKISAP-SGGGASF 713

QY 183 SF-LPSQTSDFWFCQAANNANVQHSALTVPVPGDQDMEDWQGPLES 223

Db 714 NLSLTTEHSGIYSCADNGLQAEQRSEMTVLKVA-----VFSRSPVLTL 756

RESULT 21

AAB82317

ID AAB82317 standard; Protein; 508 AA.

XX AAB82317;

XX 23-JUL-2001 (first entry)

Db	Seq	Score	Length	Indels	Gaps
DE	Human immunoglobulin receptor IRTA4 protein.	7.5%; Score 105; DB 22; Length 508;	508	61; Conservative	27; Mismatches 96; Indels 48; Gaps 11;
XX	Immunoglobulin superfamily receptor translocation associated;				
XX	IRTA4; human; immunoglobulin receptor; Fc receptor; melanoma;				
XX	lymphoma; myeloma; B cell malignancy; cancer; chromosome 1q21;				
XX	diagnosis; therapy.				
XX	Homo sapiens.				
XX	WO200138490-A2.				
XX	31-MAY-2001.				
XX	28-NOV-2000; 2000WO-US322403.				
XX	29-NOV-1999; 99US-0168151.				
XX	(UYCO ) UNIV COLUMBIA NEW YORK.				
XX	Dalla-Favera R;				
XX	WPI; 2001-355921/37.				
XX	N-PSDB; AAF30954.				
XX	New genes encoding immunoglobulin receptor, Immunoglobulin super				
XX	Receptor Translocation Associated proteins, used to treat B cell				
XX	malignancies including lymphomas and multiple myeloma -				
XX	Claim 5; Fig 18D-1-18D-2; 72pp; English.				
XX	The present sequence is that of the novel human immunoglobulin				
XX	receptor, immunoglobulin superfamily receptor translocation				
XX	associated protein 4 (IRTA4), an Fc receptor involved in the				
XX	pathogenesis of lymphoma and melanoma. Efforts to identify genes				
XX	involved in chromosomal aberrations affecting band 1q21 in multiple				
XX	myeloma and B cell lymphoma led to the discovery of IRTA1 and IRTA2				
XX	(see AAB82312-15) as founding members of a novel subfamily of related				
XX	receptors within the immunoreceptor family. 3 Additional proteins,				
XX	IRTA3, IRTA4 and IRTA5 (see AAB82316-18), were subsequently				
XX	identified, which are also members of this novel subfamily. The				
XX	IRTA genes display a specific pattern of expression in mature B				
XX	cells. IRTA4 is selectively expressed in mantle zone C cells, the				
XX	pre-GC compartment of mature B cells. The invention provides IRTA				
XX	nucleic acids, proteins, and antibodies directed to epitopes of				
XX	IRTA proteins. Methods are claimed for: detecting a B cell malignancy				
XX	comprising a 1q21 chromosomal rearrangement using a nucleic acid				
XX	molecule that specifically hybridises with a unique sequence of				
XX	human IRTA1-5; and treating a subject having a B cell cancer by				
XX	administering an anti-IRTA antibody or an antisense oligonucleotide				
XX	that specifically hybridises to IRTA mRNA so as to prevent				
XX	overexpression of IRTA protein and hence to arrest cell growth or				
XX	induce cell death of cancer cells expressing IRTA. The B cell				
XX	cancer is selected from B cell lymphoma, mantle cell lymphoma,				
XX	multiple myeloma, Burkitt's lymphoma, marginal zone lymphoma,				
XX	diffuse large cell lymphoma and follicular lymphoma. The B cell				
XX	lymphoma is selected from mucosa-associated-lymphoid tissue B cell				
XX	lymphoma or non-Hodgkin's lymphoma.				
XX	Sequence 508 AA;				
XX	Query Match	7.5%; Score 105; DB 22; Length 508;	508	61; Conservative	27; Mismatches 96; Indels 48; Gaps 11;
XX	Best Local Similarity	26.3%; Pred. No. 0.19;			
XX	Matches	61; Conservative	27; Mismatches	96; Indels	48; Gaps
XX	41 KGRWLITCCAPQPPPTITS-----LCGKNIKVAKKVKTKEPASPFLNVTLKSPDLL 96				
XX	218 EGKUILICLVAGGTGNTFTSWYREATGSMK-----KTQRLSAELIPAVKESDAG 271				
XX	97 TYFCRASSTGSHVDSARLQHWELWSK-----PVSELRAFFTQDRGA-----GPRV 144				
XX	272 KYICRADNG-----HVLQSKVNIPIVPIVS--RPVLTIRSGCAAAVGDLL 317				
XX	145 EMICQASGSPPIITNSLIGKQGVHLQORPCHROPANFSF-LPSQTSDFWFCQAANNVY 203				
XX	318 ELHCEALRGSPPILYQFYHEDVTLGNSAP-SGGGASFNLSTAHSNGYSCAANNGLGA 378				
XX	204 QHS-ALTVPVPPGGDQKMD-----WQ--GPLESPIALPLYRSTRRLSEE 245				
XX	377 QCSEAVFVSIISGPDGYRDLMTAGVLWGLFGLGFTGVALLIYALFHKISGE 428				
XX	RESULT 22				
XX	AAV27129				
XX	ID AAV27129 standard; Protein; 343 AA.				
XX	AC AAV27129;				
XX	XX AAV27129;				
XX	DT 14-SEP-1999 (first entry)				
XX	XX Human bone marrow-derived polypeptide (clone OAF038-Ieu).				
XX	XX Brain tissue; human; bone marrow; umbilical cord venous endothelial cell				
XX	XX recombinant; diagnosis; treatment.				
XX	XX Homo sapiens.				
XX	XX Key	Location/Qualifiers			
XX	FT Peptide	1..19			
XX	FT Protein	/note= "signal peptide"			
XX	FT Protein				

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Db      142  --HITLCLSVNGSLPINYTF--ENHVAISPAISKYDREPAFNLTCKNPGEEE- 193
QY      193  FWCQARN--ANVQHSALTVPVPGD 216
Db      194  YRCEAKNRLPNYATYSH-PVTMPSTGGD 220

RESULT 23
AAY27130
ID AAY27130 standard; Protein; 343 AA.
XX
AC AAY27130;
XX
DT 14-SEP-1999 (first entry)
XX
DE Human bone marrow-derived polypeptide (clone OAF038-Pro).
XX
KW Brain tissue; human; bone marrow; umbilical cord venous endothelial cell;
KW recombinant; diagnosis; treatment.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT Peptide 1..19 /note= "signal peptide"
FT Protein 20..343 /note= "mature protein"
XX
PN W09933873-A1.
XX
XX 08-JUL-1999.
XX
XX 25-DEC-1998; 98WO-JP05952.
XX
XX 26-DEC-1997; 97JP-0358811.
XX
XX (ONOY ) ONO PHARM CO LTD.
XX
XX Fukushima D, Shibayama S, Tada H;
XX WPI; 1999-419088/35.
XX
XX N-PSDB; AAX89118, AAX89119.
XX
XX New adult human brain tissue-produced polypeptides useful for
XX diagnosis and treatment
XX
XX Claim 1; Page 59-60; 86pp; Japanese.
XX
XX The invention provides polypeptides (AAY27127-Y27133) produced by human
XX adult brain tissue, human bone marrow or a human umbilical cord venous
XX endothelial cell. Host cells transformed with vectors comprising the
XX nucleic acids encoding the polypeptides are used for the recombinant
XX expression of the polypeptides. The polypeptides can be used in
XX diagnosis, treatment and basic studies, with wide applications in
XX treatment depending on the activity to be aimed at. Sequences
XX AAX89112-125 represent nucleic acids encoding the polypeptides.
XX
XX Sequence 343 AA;
XX
Query Match 7.2%; Score 101.5; DB 20; Length 343;
Best Local Similarity 26.2%; Pred. No. 0.24;
Matches 55; Conservative 25; Mismatches 67; Indels 63; Gaps 13;
QY 37 EVFPKGRWVLTCCAPQPPPIYSLCGTKNIKVAKKVVKTH-----EPASENLNVT 88
Db 44 KVVVKQNVSMFCSHNKSLQIYSLFRR-----KTHPGTDGKGEPALFNLSIT 93
QY 89 --LKSSPDLITYFCRASTSTSGAH-----VDSARLQMWELWKSVPVSELFANFTLOD 137
Db 94 EAHESGP---YKCKAQVTSCKYSRDSFTIVDPV-----TSPVLNINVIQETED 140
QY 138 RGAGPRVEMICQASSGSPPIITNSLIGKDGQVHLQQRPC----HRQPNFSL---PSQTS 190
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Db      141  R---HITLCLSVNGSLPINYTF--ENHVAISPAISKYDREPAFNLTCKNPGEEE 192
QY      191  DWFWCQARN--ANVQHSALTVPVPGD 216
Db      193  E-YRCEAKNRLPNYATYSH-PVTMPSTGGD 220

RESULT 24
AAY95966
ID AAY95966 standard; Protein; 343 AA.
XX
AC AAY95966;
XX
DT 05-DEC-2000 (first entry)
XX
DE Human TANGO 228.
XX
KW TANGO 228; human; spleen disorder; immunological disorder;
KW immunomodulator; antiinflammatory; cancer; tumour; metastasis;
KW antitumour; anticancer; antimetastatic; therapy; diagnosis.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT Peptide 1..19 /label= Signal_peptide
FT Protein 20..343 /label= Mature_protein
FT Domain 1..227 /note= "extracellular domain"
FT Domain 228..249 /note= "transmembrane domain"
FT Domain 49..105 /label= immunoglobulin domain
FT Domain 140..198 /note= "immunoglobulin domain"
FT Domain 250..343 /note= "cytoplasmic domain"
FT Modified-site 51..54 /note= "Asn is N-glycosylated"
FT Modified-site 60..63 /note= "Asn is N-glycosylated"
FT Modified-site 89..92 /note= "Asn is N-glycosylated"
FT Modified-site 151..154 /note= "Asn is N-glycosylated"
FT Modified-site 157..160 /note= "Asn is N-glycosylated"
FT Modified-site 182..185 /note= "Asn is N-glycosylated"
FT Modified-site 19..20 /note= "protein kinase C phosphorylation site"
FT Modified-site 57..59 /note= "protein kinase C phosphorylation site"
FT Modified-site 71..74 /note= "cAMP- and cGMP-dependent protein kinase phosphorylation site"
FT Modified-site 139..141 /note= "protein kinase C phosphorylation site"
FT Modified-site 184..186 /note= "protein kinase C phosphorylation site"
FT Modified-site 254..256 /note= "protein kinase C phosphorylation site"
FT Modified-site 331..333 /note= "protein kinase C phosphorylation site"
FT Modified-site 91..94 /note= "casein kinase phosphorylation site"
FT Modified-site 120..123 /note= "casein kinase phosphorylation site"
FT Modified-site 137..140 /note= "casein kinase phosphorylation site"
FT Modified-site 159..162 /note= "casein kinase phosphorylation site"
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FT Modified-site /note= "casein kinase phosphorylation site"  
 FT 172..175  
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 FT 217..220  
 FT Modified-site /note= "casein kinase phosphorylation site"  
 FT 269..272  
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 FT 288..291  
 FT Modified-site /note= "casein kinase phosphorylation site"  
 FT 300..303  
 FT Modified-site /note= "casein kinase phosphorylation site"  
 FT 186..192  
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 FT 306..313  
 FT Modified-site /note= "tyrosine kinase phosphorylation site"  
 FT 49..54  
 FT Modified-site /note= "N-myristoylated"  
 FT 77..82  
 FT Modified-site /note= "N-myristoylated"  
 FT 274..279  
 FT Modified-site /note= "N-myristoylated"  
 FT 293..298  
 FT Modified-site /note= "N-myristoylated"  
 FT 266..268  
 FT Region /note= "cell attachment site"  
 FT 228..249  
 FT Peptide /note= "leucine zipper"  
 FT  
 XX W0200050443-A2.  
 XX  
 XX 31-AUG-2000.  
 XX  
 XX 25-FEB-2000; 2000WO-US05035.  
 XX  
 XX 26-FEB-1999; 99US-0259387.  
 XX  
 XX (MILL-) MILLENNIUM PHARM INC.  
 XX  
 XX Fraser CC;  
 XX  
 XX WPI; 2000-533178/48.  
 XX  
 XX N-PSDB; AAA50441.  
 XX  
 XX Nucleic acids encoding TANGO 228, 240 and 243 pp. which have homology  
 XX to the rat mast cell Ag-32, the Mycobacterium tuberculosis hypothetical  
 XX protein Rv0712 and human phospholipase A2-activating protein -  
 XX  
 XX Claim 8; Fig 2; 188pp; English.  
 XX  
 XX The present sequence is that of human TANGO 228, a protein that  
 XX includes 2 Ig domains and which has homology to rat MCA-32 (mast  
 XX cell Ag-32), a cell surface antigen that is up-regulated in  
 XX activated mast cells. The sequence was deduced from that of a cDNA  
 XX clone (see AAA50441) isolated from a foetal spleen cDNA library.  
 XX TANGO 228 proteins, nucleic acids and their modulators can be used  
 XX to: modulate the proliferation, differentiation and/or function of  
 XX cells that form the spleen, e.g. to treat (foetal) spleen-associated  
 XX diseases such as splenic lymphoma and/or splenomegaly, and/or  
 XX phagocytic disorders such as those inhibiting macrophage engulfment  
 XX of bacteria and viruses in the bloodstream; to modulate mast cell  
 XX function and thus to treat immunological disorders and diseases  
 XX including allergic asthma and atopic dermatitis; to protect the body  
 XX from antigenic invaders e.g. by modulating the activity of macrophage  
 XX for treatment of anaphylactic shock or allergic dermatitis; to  
 XX modulate type I immunological disorders, e.g. anaphylaxis or  
 XX rhinitis, by modulating the interaction between antigens and mast  
 XX cell receptors; and to treat tumour necrosis factor-related  
 XX disorders (e.g. acute myocarditis, myocardial infarction, congestive  
 XX heart failure); T cell disorders (e.g. dermatitis, fibrosis),  
 XX differentiative and apoptotic disorders, and disorders related to  
 XX angiogenesis (e.g. tumor formation, metastasis, cancer). TANGO 228  
 XX polypeptides can be obtained using recombinant DNA methods and  
 XX expressed using gene therapy protocols. They can also be used to

CC raise antibodies (useful as diagnostics) and to screen for  
 XX modulator compounds.  
 XX  
 SQ Sequence 343 AA;  
 Query Match 7.2%; Score 101.5; DB 21; Length 343;  
 Best Local Similarity 26.4%; Pred. No. 0.24;  
 Matches 55; Conservative 27; Mismatches 67; Indels 59; Gaps 13;  
 QY 37 EVFPEGRWVLTTCAPQPPPTYSL-----CGTKNIKAKVKVKTHEPASFNLT-- 88  
 DB 44 KVMKGNVSMFCSHKNSQITVSLFRKTHLGTQDK-----GEPAIFNLITEA 95  
 QY 89 LKSPDLLTYFCRASSTSGAH-----VDSARLQMHWELMWSKPVSELPANFTLQDRG 139  
 DB 96 HESGF-----YKCAQVTSCKYSRDFSFTIVDPV-----TSPVLNIMVIQTETDR- 141  
 QY 140 AGPRVEMICOASSGSPITNTSLIGKQGVHLQRPCC-----HRQPAFTSFL---PSQTSDW 192  
 DB 142 ---HITLHCLSVNGSLFNITFF-----ENHVAISPA-SKYDREPAEFNLTKNFGEBEE- 193  
 QY 193 FWCQANN-----ANVQHSALTVPVPGGD 216  
 DB 194 YRCEAKNRLPNYATYSH-FVTMPSTGGD 220  
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 ID ABB10224 standard; Protein; 362 AA.  
 XX  
 XX ABB10224;  
 XX  
 DT 10-JAN-2002 (first entry)  
 XX  
 DE Human cDNA SEQ ID NO: 532.  
 XX  
 XX Human; gene therapy; neural disorder; immune system disorder;  
 XX muscular disorder; reproductive disorder; gastrointestinal disorder;  
 XX pulmonary disorder; cardiovascular disorder; renal disorder;  
 XX proliferative disorder; inflammation.  
 XX  
 OS Homo sapiens.  
 XX  
 XX W0200154474-A2.  
 XX  
 XX 02-AUG-2001.  
 XX  
 XX 17-JAN-2001; 2001WO-US01349.  
 XX  
 XX 31-JAN-2000; 2000US-179065P.  
 PR 04-FEB-2000; 2000US-180628P.  
 PR 24-FEB-2000; 2000US-184664P.  
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 PR 16-MAR-2000; 2000US-189874P.  
 PR 17-MAR-2000; 2000US-190076P.  
 PR 18-APR-2000; 2000US-198123P.  
 PR 19-MAY-2000; 2000US-200515P.  
 PR 07-JUN-2000; 2000US-209467P.  
 PR 28-JUN-2000; 2000US-214886P.  
 PR 30-JUN-2000; 2000US-215135P.  
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 PR 07-JUL-2000; 2000US-216880P.  
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 PR 14-AUG-2000; 2000US-225213P.  
 PR 14-AUG-2000; 2000US-225214P.  
 PR 14-AUG-2000; 2000US-225266P.  
 PR 14-AUG-2000; 2000US-225267P.



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Qy 140 AGPRVEMICQASSGPPTNSLIGKQGVHLQORPC-----HRQANFSFL---ESQTSW 192
Db 161 ---HITLCLSVNGSLPINTFF---ENHVAISPAISKYDREPAENLTCKNFEGBEE- 212
Qy 193 FWCQAANN-----ANQHSALTVPVPGGD 216
Db 213 YRCEAKNRLPNATYSH-PVTMPSTGGD 239

RESULT 26
AAU18018
ID AAU18018 standard; Protein; 362 AA.
XX AC AAU18018;
XX DT 07-NOV-2001 (first entry)
XX DE Human immunoglobulin polypeptide SEQ ID No 163.
XX KW Immunoglobulin; signal transduction pathway protein; cancer;
KW antisense therapy; gene therapy; neurological disorder; renal disorder;
KW cardiovascular disorder; gastrointestinal disorder; pulmonary disorder;
KW reproductive disorder; immune system disorder; proliferative disorder;
KW muscular disorder.
XX OS Homo sapiens.
XX PN WO200155315-A2.
XX PD 02-AUG-2001.
XX PF 17-JAN-2001; 2001WO-US01326.
XX PR 31-JAN-2000; 2000US-0179065.
PR 04-FEB-2000; 2000US-0180628.
PR 24-FEB-2000; 2000US-0184664.
PR 02-MAR-2000; 2000US-0186350.
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PR 07-JUN-2000; 2000US-0209467.
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PR 14-AUG-2000; 2000US-0224519.
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PR 22-AUG-2000; 2000US-0226688.
PR 22-AUG-2000; 2000US-0227182.
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PR 01-SEP-2000; 2000US-0229343.
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PR 21-SEP-2000; 2000US-0234223.
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PR 02-OCT-2000; 2000US-0236802.
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PR 02-OCT-2000; 2000US-0237040.
PR 13-OCT-2000; 2000US-0239935.
PR 13-OCT-2000; 2000US-0239937.
PR 20-OCT-2000; 2000US-0240960.
PR 20-OCT-2000; 2000US-0241221.
PR 20-OCT-2000; 2000US-0241785.
PR 20-OCT-2000; 2000US-0241786.
PR 20-OCT-2000; 2000US-0241787.
PR 20-OCT-2000; 2000US-0241808.
PR 20-OCT-2000; 2000US-0241809.
PR 20-OCT-2000; 2000US-0241826.
PR 01-NOV-2000; 2000US-0244617.
PR 08-NOV-2000; 2000US-0246474.
PR 08-NOV-2000; 2000US-0246475.
PR 08-NOV-2000; 2000US-0246476.
PR 08-NOV-2000; 2000US-0246477.
PR 08-NOV-2000; 2000US-0246478.
PR 08-NOV-2000; 2000US-0246523.
PR 08-NOV-2000; 2000US-0246524.
PR 08-NOV-2000; 2000US-0246525.
PR 08-NOV-2000; 2000US-0246526.
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PR 08-NOV-2000; 2000US-0246528.
PR 08-NOV-2000; 2000US-0246532.
PR 08-NOV-2000; 2000US-0246609.
PR 08-NOV-2000; 2000US-0246610.
PR 08-NOV-2000; 2000US-0246611.
PR 08-NOV-2000; 2000US-0246613.
PR 17-NOV-2000; 2000US-0249207.
PR 17-NOV-2000; 2000US-0249208.
PR 17-NOV-2000; 2000US-0249209.
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PR 17-NOV-2000; 2000US-0249211.
PR 17-NOV-2000; 2000US-0249212.
PR 17-NOV-2000; 2000US-0249213.
PR 17-NOV-2000; 2000US-0249214.
PR 17-NOV-2000; 2000US-0249215.

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XX	DE	XX	Human protein sequence SEQ ID NO:1218.	Human; cancer; ulcer; HIV infection; human immunodeficiency virus; antiinflammatory; antirheumatic; antiarthritic; immunosuppressive; antibacterial; endocrine; cardiant; central nervous system; virucide; anti-HIV; fungicide; antimutagen; cardiovascular; antianemic; anaemia; antiaggregant; haemostatic; vulnary; antiulcer; osteopathic; eczema; dermatological; antiallergic; antiasthmatic; antidiabetic; cytostatic; neuroprotective; antipressant; nootropic; antiparkinsonian; infection; immunostimulant; gene therapy; antisense therapy; vaccine; pancreatitis; antianaphylactic; rheumatoid arthritis; septic shock; pancreatitis; cardiac dysfunction; neuropathology; cardiac anaphylaxis; autoimmunity; genetic disease; haematopoietic disorder; platelet disorder; asthma; thrombocytopaenia; osteoporosis; severe combined immunodeficiency; allergic rhinitis; diabetes; multiple sclerosis; depression; Alzheimer's disease; Parkinson's disease; neurodegenerative disorder; neurological disorder.
XX	OS	XX	Homo sapiens.	
XX	PN	XX	WO200153455-A2.	
XX	XX	XX	26-JUL-2001.	
XX	PF	XX	22-DEC-2000; 2000WO-US35017.	
XX	PR	XX	23-DEC-1999; 98US-0471275.	
XX	PR	XX	21-JAN-2000; 2000US-0488725.	
XX	PR	XX	25-APR-2000; 2000US-0552317.	
XX	PA	XX	(HYSE-) HYSEQ INC.	
XX	PI	XX	Tang YT, Liu C, Drmanac RT;	
XX	DR	XX	WPI; 2001-457603/49.	
XX	DR	XX	N-PSDB; AAH99644.	
XX	PT	XX	Isolated human polynucleotides encoding polypeptides, useful for the treatment and diagnosis of e.g. cancer, ulcers and HIV infection -	
XX	PS	XX	Claim 20; Page 252; 1217pp; English.	
XX	CC	XX	AAH99166 to AAH99904 encode the human proteins given in AAM25225 to AAM25963. The proteins can have activities based on the tissues and cells they are expressed in, such as: antiinflammatory; antirheumatic; antiarthritic; immunosuppressive; antibacterial; endocrine; cardiant; central nervous system; virucide; anti-HIV; fungicide; antimutagen; cardiovascular; antianemic; antiaggregant; haemostatic; vulnary; antiulcer; osteopathic; dermatological; antiallergic; antiasthmatic; antidiabetic; cytostatic; neuroprotective; antipressant; nootropic; antiparkinsonian; and immunostimulant. The proteins and polynucleotides encoding them can be used in gene therapy, antisense therapy and vaccine production. The proteins and polynucleotides are useful for screening for agonists or antagonists of a protein and for the treatment and diagnosis of disorders associated with the activity of a protein e.g. inflammation, rheumatoid arthritis, septic shock, pancreatitis, cardiac dysfunction, neuropathology, cardiac anaphylaxis, viral, bacterial, HIV and fungal infections, autoimmunity, genetic diseases, haematopoietic disorders, anaemia, platelet disorders, thrombocytopaenia, wounds, burns, ulcers, osteoporosis, severe combined immunodeficiency, eczema, allergic rhinitis, asthma, diabetes, cancer, multiple sclerosis, depression, Alzheimer's disease, Parkinson's disease, neurodegenerative and neurological disorders.	
XX	CC	XX	Sequence 366 AA;	
XX	CC	XX	Query Match 7.2%; Score 101.5; DB 22; Length 366;	
XX	CC	XX	Best Local Similarity 26.4%; Pred. No. 0.26;	
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XX	CC	XX	37 EVFPGKRWLITCCAPQPPPTYSI-----CGTKNIKVAKVKVTHPEAFNLT-- 88	
XX	CC	XX	63 KVMKQGNVSFCSHRNKSQITYSIFRRKTHLGTQDGK-----GEPALFNLSITEA 114	
XX	CC	XX	89 LKSSPDLITFCRASSTSGAH-----VDSARLQHWELWSPVSELRANFTLQDRG 139	
XX	CC	XX	115 HESGP-----YKCAQVTSCKYSRDSFIVDPV-----TSPVLNMIQIETDR- 160	
XX	CC	XX	140 AGRPEVMICQASSGPPITNSLIGKQVHLOQRPC-----HROPANFSPF--PSQTSDW 192	
XX	CC	XX	161 ---HITLHCLVSLPNTVTF---ENHVALSPAISKYDREPAFNLTKNPGEEB- 212	
XX	CC	XX	193 FWCQANN-----ANVOHSALTVPFGGD 216	
XX	CC	XX	213 YRCEAKNRLPNVATYSH-PVTMPSTGGD 239	
XX	CC	XX	Sequence 362 AA;	
XX	CC	XX	Query Match 7.2%; Score 101.5; DB 23; Length 362;	
XX	CC	XX	Best Local Similarity 26.4%; Pred. No. 0.26;	
XX	CC	XX	Matches 55; Conservative 27; Mismatches 67; Indels 59; Gaps 13;	
XX	CC	XX	37 EVFPGKRWLITCCAPQPPPTYSI-----CGTKNIKVAKVKVTHPEAFNLT-- 88	
XX	CC	XX	63 KVMKQGNVSFCSHRNKSQITYSIFRRKTHLGTQDGK-----GEPALFNLSITEA 114	
XX	CC	XX	89 LKSSPDLITFCRASSTSGAH-----VDSARLQHWELWSPVSELRANFTLQDRG 139	
XX	CC	XX	115 HESGP-----YKCAQVTSCKYSRDSFIVDPV-----TSPVLNMIQIETDR- 160	
XX	CC	XX	140 AGRPEVMICQASSGPPITNSLIGKQVHLOQRPC-----HROPANFSPF--PSQTSDW 192	
XX	CC	XX	161 ---HITLHCLVSLPNTVTF---ENHVALSPAISKYDREPAFNLTKNPGEEB- 212	
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XX	CC	XX	213 YRCEAKNRLPNVATYSH-PVTMPSTGGD 239	
XX	CC	XX	Sequence 362 AA;	
XX	CC	XX	Query Match 7.2%; Score 101.5; DB 23; Length 362;	
XX	CC	XX	Best Local Similarity 26.4%; Pred. No. 0.26;	
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XX	CC	XX	37 EVFPGKRWLITCCAPQPPPTYSI-----CGTKNIKVAKVKVTHPEAFNLT-- 88	
XX	CC	XX	63 KVMKQGNVSFCSHRNKSQITYSIFRRKTHLGTQDGK-----GEPALFNLSITEA 114	
XX	CC	XX	89 LKSSPDLITFCRASSTSGAH-----VDSARLQHWELWSPVSELRANFTLQDRG 139	
XX	CC	XX	115 HESGP-----YKCAQVTSCKYSRDSFIVDPV-----TSPVLNMIQIETDR- 160	
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XX	CC	XX	161 ---HITLHCLVSLPNTVTF---ENHVALSPAISKYDREPAFNLTKNPGEEB- 212	
XX	CC	XX	193 FWCQANN-----ANVOHSALTVPFGGD 216	
XX	CC	XX	213 YRCEAKNRLPNVATYSH-PVTMPSTGGD 239	
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XX	CC	XX	89 LKSSPDLITFCRASSTSGAH-----VDSARLQHWELWSPVSELRANFTLQDRG 139	
XX	CC	XX	115 HESGP-----YKCAQVTSCKYSRDSFIVDPV-----TSPVLNMIQIETDR- 160	
XX	CC	XX	140 AGRPEVMICQASSGPPITNSLIGKQVHLOQRPC-----HROPANFSPF--PSQTSDW 192	
XX				









receptor, immunoglobulin superfamily receptor translocation associated protein 3 (IRTA3), an Fc receptor involved in the pathogenesis of lymphoma and melanoma. Efforts to identify genes involved in chromosomal aberrations affecting band 1q21 in multiple myeloma and B cell lymphoma led to the discovery of IRTA1 and IRTA2 (see AAB82312-15) as founding members of a novel subfamily of related receptors within the immunoreceptor family. 3 Additional proteins, IRTA3, IRTA4 and IRTA5 (see AAB82316-18), were subsequently identified, which are also members of this novel subfamily. The IRTA genes display a specific pattern of expression in mature B cells. IRTA3 is expressed in GC centrocytes and in perifollicular cells, which may include lymphoblasts and memory cells. This is analogous to IRTA2 expression. The invention provides IRTA nucleic acids and proteins, and antibodies directed to an epitope of an IRTA protein. Methods are claimed for: detecting a B cell malignancy comprising a 1q21 chromosomal rearrangement using a nucleic acid molecule that specifically hybridizes with a unique sequence of human IRTA1-5; and treating a subject having a B cell cancer by administering an anti-IRTA antibody or an antisense oligonucleotide that specifically hybridizes to IRTA mRNA so as to prevent overexpression of IRTA protein and hence to arrest cell growth or induce cell death of cancer cells expressing IRTA. The B cell cancer is selected from B cell lymphoma, mantle cell lymphoma, multiple myeloma, Burkitt's lymphoma, marginal zone lymphoma, diffuse large cell lymphoma and follicular lymphoma. The B cell lymphoma is selected from mucosa-associated-lymphoid tissue B cell lymphoma or non-Hodgkin's lymphoma.

SQ Sequence 734 AA;

Query Match 7.1%; Score 100; DB 22; Length 734;

Best Local Similarity 24.9%; Pred. No. 0.99; Mismatches 52; Conservative 39; Indels 30; Gaps 11;

Matches 52; Conservative 39; Mismatches 58; Indels 30; Gaps 11;

QY 25 ITPVVSIAKYLEV-FPKGRWVLTCCAPQPPPTISLCGTNKKVAKVVKVTH 78

Db 374 VTVRIPVSHPLTFRAPRAHTVVGDLLEHCHESLRGSPILYFY-HEDVTIGNSAPSG 432

QY 79 EPASINATVTKSSPDLLTYFCRASSTGA-HVDSARLQMHWELMSKPVSELRANFTLQD 137

Db 433 GGASFNLSTAEHSGN---YSCDADNGLGAQSHGVSLEV---TVPVVS--RPVLTIRA 482

QY 138 RGA---GPRVEMICOASSGSPPTITNSLIGKD---GQVHLQRPCHRPQANFSF-LPSQT 189

Db 483 PGAAVVGDLLEHCHESLRGSPILYFWFYHEDDTLGNISAHS---GGASFNLSTLTH 538

QY 190 SDWFWCQAANNANVOHSALTVPVPGDQK 218

Db 539 SGNYSCEADNGLGAQSHKVVTLNVTGTSR 567

RESULT 34

ABG74786

ID ABG74786 standard; Protein; 31267 AA.

XX AC ABG74786;

XX AC ABG74786;

XX AC ABG74786;

XX AC ABG74786;

XX AC ABG74786;

XX AC ABG74786;

XX AC ABG74786;

XX AC ABG74786;

XX AC ABG74786;

XX AC ABG74786;

XX AC ABG74786;

XX AC ABG74786;

XX AC ABG74786;

XX AC ABG74786;

XX AC ABG74786;

XX AC ABG74786;

XX AC ABG74786;

XX AC ABG74786;

XX AC ABG74786;

XX AC ABG74786;

XX AC ABG74786;

XX (TAKE ) TAKEDA CHEM IND LTD.

XX Koyama N, Tanida S, Yamamoto K;

XX WPI; 2003-167557/16.

XX N-PSDB; ABX13540.

XX Screening compounds regulating RGS11 expression and activity for

XX prevention and treatment of heart disease

XX Claim 1; Page 59-261; 321pp; Japanese.

XX This invention describes a novel method for screening compounds for their

XX ability to regulate the activity and expression of human RGS11 and its

XX partial peptides and salts, by observing the expression or activity of

XX RGS11 in the presence or absence of the test compound. The products of

XX the invention have cardiac and antiangiogenic activity and can be used for

XX gene therapy. The methods and compositions are useful in the prevention,

XX treatment and diagnosis of heart disorders such as cardiac ischaemia,

XX heart failure and angina. This sequence represents the human RGS11

XX protein described in the disclosure of the invention.

XX Sequence 31267 AA;

Query Match 7.1%; Score 99.5; DB 24; Length 31267;

Best Local Similarity 22.4%; Pred. No. 2.3e+02;

Matches 49; Conservative 31; Mismatches 72; Indels 67; Gaps 8;

QY 24 EITPVVSIAKYLEV-FPKGRWVLTCCAPQPPPTISLCGTNKKVAKVVKVTHPASF 83

Db 6398 ELKPEVVKYSDVE-----LECEVTGTPPEVTWLNKNNREIRSSKKYTLTDVRSVF 6448

QY 84 NLNVTKSSPDLLTYFCRASSTGAHVDSARLQMHWELMSKPVSELRANF 133

Db 6449 NLHITKCDSDTGEVQCVIVSNEGSCSSTRVAL-----KEPPSFIKKIENTTTLKSSA 6503

QY 134 TLQDRGAGPRVEMICOASSGSPPTITNSLIGKDQGVHLQRPCHRPQANFSFLPS 187

Db 6504 TFGSTVA-----GSPPISTWLNKDDQILDEDDNVYI-----SFVDS 6539

QY 188 QT-----SDWFWCQAANNANVO---HSALTVPVPP 213

Db 6540 VATLQIRSVNDNGHSGRYTCQAKNCSGVERCYAFLILVQEP 6578

RESULT 35

ABP69283

ID ABP69283 standard; Protein; 222 AA.

XX AC ABP69283;

XX AC ABP69283;

XX AC ABP69283;

XX AC ABP69283;

XX AC ABP69283;

XX AC ABP69283;

XX AC ABP69283;

XX AC ABP69283;

XX AC ABP69283;

XX AC ABP69283;

XX AC ABP69283;

XX AC ABP69283;

XX AC ABP69283;

XX AC ABP69283;

XX AC ABP69283;

XX AC ABP69283;

XX AC ABP69283;

XX AC ABP69283;

XX AC ABP69283;

XX AC ABP69283;

XX AC ABP69283;

XX AC ABP69283;

XX AC ABP69283;

XX AC ABP69283;

XX AC ABP69283;

XX AC ABP69283;

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PR 05-MAR-2001; 2001US-0759451.
XX (HYSE-) HYSEQ INC.
XX
XX Tang YT, Zhou P, Goodrich RW, Asundi V, Zhang J, Zhao QA, Ren F;
XX Xue AJ, Yang Y, Ma Y, Yamazaki V, Chen R, Wang Z, Ghosh M;
XX Wehrman T, Wang J, Wang D, Drmanac RT;
XX
XX WPI: 2002-759812/82.
XX N-PSDB; ABZ11500.
XX
XX New polynucleotides comprising sequences assembled from expressed
XX sequence tags (ESTs), useful for treating cell-proliferative,
XX neurodegenerative, autoimmune, genetic, myeloid or lymphoid, or
XX platelet or coagulation disorders
XX
XX Claim 9; SEQ ID NO 1330; 1012pp + Sequence Listing; English.
XX
XX The invention relates to an isolated polynucleotide (I) comprising a
XX nucleotide sequence selected from any of 948 sequences
XX (ABZ11119-ABZ12066) or their mature protein coding portion, active domain
XX coding protein or complementary sequences. The polynucleotides are useful
XX for identifying expressed genes or for physical mapping of human genome.
XX The encoded polypeptides (ABP68902-ABP69849) are useful as molecular
XX weight markers, as a food supplement, for generating antibodies, in
XX medical imaging, screening and diagnostic assays and for treating
XX cell-proliferative disorders (cancer), neurodegenerative diseases
XX (Parkinson's or Alzheimer's disease), autoimmune diseases (multiple
XX sclerosis, diabetes, lupus) genetic disorders, myeloid or lymphoid
XX disorders, platelet or coagulation disorders, wound, burns, incision,
XX ulcers, liver or lung fibrosis, infections (bacterial, viral, fungal,
XX parasitic), arthritis, etc.
XX
XX Note: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format directly from WIPO
XX at ftp.wipo.int/pub/published_pct_sequences.
XX
XX Sequence 222 AA;
XX
XX Query Match 7.0%; Score 98.5; DB 23; Length 222;
XX Best Local Similarity 23.3%; Pred. No. 0.25;
XX Matches 50; Conservative 28; Mismatches 86; Indels 45; Gaps 8;
XX
XX QY 30 SIAYKLVFPPKGRWLIITCCAPQ-----PPPTYSLCGTY----- 66
XX Db : : : : : : : : : : : : : : : : : : : : : : : : : : : :
XX 15 TWPYVISDSPRS-WIQVOIPASHPVLTLSPEKALNFGTKVTLHCETQEDSLRTLYRFY 73
XX
XX QY 67 --NIKAKVKTHTPEASFNLTLSKSPDLITYFCRASTSGAHVDSARLQHWELWSK 124
XX Db : : : : : : : : : : : : : : : : : : : : : : : : : : : :
XX 74 HEGVPLRHKSVCRCGASISFSLTWSGN--YYCTADNGLGAKPSKAVSLSVTPVSH 130
XX
XX QY 125 PVSELRANFTLQDAGRPVEMICQASSGSPPTNSLICKDQVHLQRPCHQEPAN--- 181
XX Db : : : : : : : : : : : : : : : : : : : : : : : : : : : :
XX 131 PVNLSSPDLIFEGA--KVTLLHCEAQRGLSILPY-----QFHEDAALERRSANSAG 181
XX
XX QY 182 ---FSF-LPSQTSDFWFCQANNANYQHS 206
XX Db : : : : : : : : : : : : : : : : : : : : : : : : : : : :
XX 182 GVAISFSLTAHSGNYCYCTADNGFGPQRS 210
XX
XX RESULT 36
XX ID AAR13251
XX XX AAR13251 standard; Protein; 738 AA.
XX AC AAR13251;
XX XX AAR13251;
XX
XX DT 25-MAR-2003 (updated)
XX DT 10-OCT-1991 (first entry)
XX
XX DE PECAM-1.
XX
XX Platelet and endothelial cell adhesion molecule; antibodies;
XX KW muten; leukemia; cancer; variant.
XX

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OS Homo sapiens.
XX
XX Key Location/Qualifiers
XX Peptide 1..27
XX /label= sig_peptide
XX Protein 28..738
XX /label= mat_protein
XX Domain 602..620
XX /label= transmembrane_domain
XX
XX Modified-site 52
XX /label= glycosylation_site
XX Modified-site 84
XX /label= glycosylation_site
XX Modified-site 151
XX /label= glycosylation_site
XX Modified-site 301
XX /label= glycosylation_site
XX Modified-site 320
XX /label= glycosylation_site
XX Modified-site 344
XX /label= glycosylation_site
XX Modified-site 356
XX /label= glycosylation_site
XX Modified-site 453
XX /label= glycosylation_site
XX Modified-site 551
XX /label= glycosylation_site
XX Modified-site 713
XX /label= phosphorylation_site
XX
XX WO9110683-A.
XX
XX 25-JUL-1991.
XX
XX 27-DEC-1990; 90WO-US07418.
XX
XX 19-JAN-1990; 90US-0466140.
XX
XX (BLOO-) BLOOD CENT SE WISCO.
XX (NEWM/) NEWMAN P J.
XX
XX Newman PJ;
XX
XX WPI: 1991-237987/32.
XX P-PSDB; AAR13251.
XX
XX Platelet and endothelial cell adhesion molecule - the molecule or
XX its antibodies, are useful for preventing metastatic disease
XX
XX Disclosure; Fig 1; 42pp; English.
XX
XX Cysteine residues, spaced approx. 50 amino acids apart throughout
XX the entire external domain of PECAM-1, are thought to participate in
XX disulfide-bond formation within individual immunoglobulin homology
XX units.
XX
XX PECAM-1 and variants can be used in modulating angiogenic processes
XX which depend on neutrophil chemotaxis and/or formation of junctions
XX between endothelial cells, e.g. in tumour development. PECAM-1,
XX variants and antibodies to them can be used in the prevention of
XX metastatic disease. The antibodies can also be used to produce
XX anti-idiotypic antibodies which can be used to sequester anti-PECAM
XX antibodies in an individual, thereby to treat or prevent pathological
XX conditions which may be associated with an immune response whereby
XX PECAM-1 is recognised as foreign by the immune system of the
XX individual.
XX
XX The variant pref. comprises the N-terminal sequence QENSF and is
XX 574 amino acids long.
XX
XX (Updated on 25-MAR-2003 to correct PA field.)
XX
XX Sequence 738 AA;
XX
XX Query Match 7.0%; Score 98; DB 12; Length 738;
XX Best Local Similarity 21.2%; Pred. No. 1.6;
XX

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Matches 60; Conservative 39; Mismatches 116; Indels 68; Gaps 11;
QY 19 KAREEITPVVSIAYKVLVFPK-----GRWVLTCCAPQPPPIYSLGCTK 66
Db 305 KVESRISKVSSIVVNITELFSKPELESFTHLDQGERLNLSCSIPGAPP-----A 355
QY 67 NIKVAKVVKVTHEPASFNLTLSKSPDLLTYFCRASSTSGAHVDSARLQMHWELMSKPV 126
Db 356 NFTIQEDTIVSQDFF---TKIASKSDSGTYICTAGIDKVVKKSNVTQIVVCEMLSQPR 412
QY 127 SELRANFTLQDRGAGPRVEMICQASSGSPPTITNSLIGKDGQVHLQORPCHRPANFSFLP 186
Db 413 ISYDAQFEVI---KGQTIIEVRCESISGTLPIISVQLL-KTSKVLNSTKNSNDPAVFDNP 468
QY 187 SQTSDWFWCQAANNAN-----VQHSALT--VVPFGDQKME-----D 221
Db 469 TEDVE-YQCVADNCHSHAKMLSEVLRVKVIAPVDEVQISILSKVVESEDIVLQCAVNE 527
QY 222 WQGPLESFIL---ALPLYRST-----RRLSEEEFGGF 250
Db 528 GSGPITYKYREKEGKPFYQMTSNATQAFWTKQKASKEGEY 570

RESULT 37
AAW14802
ID AAW14802 standard; Protein; 738 AA.
AC AAW14802;
XX
XX 17-OCT-1997 (first entry)
XX
XX PECAM-1.
KW PECAM-1; platelet/endothelial cell adhesion molecule-1; CD31;
KW inhibitor; allergy; adult respiratory distress syndrome;
KW Crohn's disease; septic shock; traumatic shock;
KW multi-organ failure; autoimmune disease; asthma;
KW inflammatory bowel disease; psoriasis; rheumatoid arthritis;
KW reperfusion injury; stroke; cancer; multiple sclerosis;
KW atherosclerosis; leukaemia; organ transplant; therapy.
XX
XX Homo sapiens.
XX
XX Key Location/Qualifiers
XX Peptide 1..27
XX /label= Sig_peptide
XX Protein 28..738
XX /label= Mat_protein
XX Domain 28..601
XX /label= Extracellular
XX Domain 602..620
XX /label= Transmembrane
XX Domain 621..738
XX /label= Cytoplasmic
XX Region 28..144
XX /label= Ig-like
XX Region 145..248
XX /label= Ig-like
XX Region 249..339
XX /label= Ig-like
XX Region 340..423
XX /label= Ig-like
XX Region 424..515
XX /label= Ig-like
XX Region 516..601
XX /label= Ig-like
XX
XX WQ9710839-A1.
XX
XX 27-MAR-1997.
XX
XX 18-SEP-1996; 96WO-US14940.

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PR 19-SEP-1995; 95US-0003996.
PR 19-SEP-1995; 95US-0003941.
PR 19-SEP-1995; 95US-0003951.
PR 19-SEP-1995; 95US-0003953.
PR 19-SEP-1995; 95US-0003968.
PR 19-SEP-1995; 95US-0003985.
XX
XX (TEXA-) TEXAS BIOTECHNOLOGY CORP.
XX
XX Beck P, Bjercke RJ, Kint PN, Ren K, Revelle BM;
XX Sherwood S;
XX WPI; 1997-202615/18.
XX
XX New synthetic peptide(s) based on PECAM-1 sequences - used for
XX inhibiting the binding of PECAM-1 to itself, for treating e.g.
XX asthma, autoimmune diseases, shock, strokes or cancer
XX
XX Claim 1; Page 31-34; 87pp; English.
XX
XX Human PECAM-1 (AAW14802), or platelet/endothelial cell adhesion
XX molecule-1 or CD31, is a glycoprotein that is constitutively
XX expressed on the surface of endothelial cells, platelets and most
XX leukocytes. It recognises and binds to other PECAM-1 molecules
XX present on the surface of adjacent cells. Novel, synthetic linear
XX and cyclic peptides (AAW28354-W28457) of 4-13 amino acids are based
XX on the C2-type Ig domain of PECAM-1. They inhibit the binding of
XX PECAM-1 to itself and can be used for treating allergy, adult
XX respiratory distress syndrome, Crohn's disease, septic shock,
XX traumatic shock, multi-organ failure, autoimmune disease, asthma,
XX inflammatory bowel disease, psoriasis, rheumatoid arthritis,
XX reperfusion injury, stroke, cancer, organ transplants, multiple
XX sclerosis, atherosclerosis and leukaemia.
XX
XX Sequence 738 AA;
XX
XX Query Match 7.0%; Score 98; DB 18; Length 738;
XX Best Local Similarity 21.2%; Pred. No. 1.6;
XX Matches 60; Conservative 39; Mismatches 116; Indels 68; Gaps 11;
QY 19 KAREEITPVVSIAYKVLVFPK-----GRWVLTCCAPQPPPIYSLGCTK 66
Db 305 KVESRISKVSSIVVNITELFSKPELESFTHLDQGERLNLSCSIPGAPP-----A 355
QY 67 NIKVAKVVKVTHEPASFNLTLSKSPDLLTYFCRASSTSGAHVDSARLQMHWELMSKPV 126
Db 356 NFTIQEDTIVSQDFF---TKIASKSDSGTYICTAGIDKVVKKSNVTQIVVCEMLSQPR 412
QY 127 SELRANFTLQDRGAGPRVEMICQASSGSPPTITNSLIGKDGQVHLQORPCHRPANFSFLP 186
Db 413 ISYDAQFEVI---KGQTIIEVRCESISGTLPIISVQLL-KTSKVLNSTKNSNDPAVFDNP 468
QY 187 SQTSDWFWCQAANNAN-----VQHSALT--VVPFGDQKME-----D 221
Db 469 TEDVE-YQCVADNCHSHAKMLSEVLRVKVIAPVDEVQISILSKVVESEDIVLQCAVNE 527
QY 222 WQGPLESFIL---ALPLYRST-----RRLSEEEFGGF 250
Db 528 GSGPITYKYREKEGKPFYQMTSNATQAFWTKQKASKEGEY 570

RESULT 38
AAB07652
ID AAB07652 standard; Protein; 738 AA.
XX
XX AAB07652;
XX
XX 07-NOV-2000 (first entry)
XX
XX A platelet-endothelial cell adhesion molecule-1.
XX
XX Human; platelet-endothelial cell adhesion molecule-1; PECAM-1;
XX angiogenesis; inflammation; arterial occlusion; tumour development;
XX

```

KW leukocyte transmigration; arthritis; bee sting; spider bite; sepsis;  
KW anaphylactic shock; atherosclerosis; vascular trauma.

XX Homo sapiens.

XX US6087331-A.

XX 11-JUL-2000.

XX 07-JUN-1995; 95US-0478208.

XX 19-JAN-1990; 90US-0466140.

XX 17-NOV-1992; 92US-0977567.

XX 16-NOV-1994; 94US-0341300.

XX (BLOO-) BLOOD CENT SOUTHEASTERN WISCONSIN.

XX Kirshbaum N, Gumina RJ, Newman PJ;

XX WPI; 2000-498203/44.

XX N-PSDB; AAA59036.

XX Therapeutic methods useful for modulating angiogenic processes,  
XX relieving inflammation, or inhibiting arterial occlusions by  
XX administering a soluble form of the platelet-endothelial cell adhesion  
XX molecule-1 -

XX Claim 1; Column 37-42; 22pp; English.

XX The present sequence represents a human platelet-endothelial cell  
XX adhesion molecule-1 (PECAM-1) polypeptide. A soluble form of  
XX PECAM-1 is used for modulating angiogenic processes, relieving  
XX inflammation, and inhibiting arterial occlusions. The method  
XX is useful for modulating angiogenic processes that are associated  
XX with tumour development, relieving inflammation due to leukocyte  
XX transmigration (e.g. arthritis, bee sting, spider bite, sepsis or  
XX anaphylactic shock), or inhibiting arterial occlusions that are  
XX associated with atherosclerosis or vascular trauma. PECAM-1 isoforms  
XX are useful for making antibodies, e.g. monoclonal antibodies, for  
XX various diagnostic and therapeutic uses.

XX Sequence 738 AA;

Query Match 7.0%; Score 98; DB 21; Length 738;  
Best Local Similarity 21.2%; Pred. No. 1.6;  
Matches 60; Conservative 39; Mismatches 116; Indels 68; Gaps 11;

QY 19 KAREEITPVVSTAYKLVFPK-----GRWLITCCAPQPPPPITYSLCGTK 66  
Db 305 KVESSRISKVSSIVVNITELFSKPELESSFTHLDQGERLNLSICIFGAPP-----A 355  
QY 67 NIKVAKVVKVTHEPASFNINVTILKSPDLLTYFCRASSTSGAHVDSARLQMHVLSKPV 126  
Db 356 NFIQKEDTIVSQTDQF---TKIASKSDSGTYICTAGIDKVKVKSNTVQIVVCEMLSQPR 412  
QY 127 SELRANFTLQDRGAGPRVEMICOASSGSPPTNSLIGKDGQVHLQRPCHROPANFSFLP 186  
Db 413 ISYDAQFEVI---KGTIEVRCESISGTLPISYQLL-KTSKVLNSTKNSNDPAVFKDNP 468  
QY 187 SQTDFWFWQAOANNAN-----VQHSALT--VVPFGDQKME---D 221  
Db 469 TEDVE-YQCVDNCHSHAKMLSEVLKVKVIAPVDEQVQISLSSKVVESGEDIVLQCAVNE 527  
QY 222 WQGPLESPII-----ALPLYRST-----RRLSEEEFGGF 250  
Db 528 GSGPITYKPYREKGGPFYQMTSNATQAFWTKQKASKEQGEY 570

RESULT 39

AAB65866

ID AAB65866 standard; Protein; 738 AA.

XX

AC AAB65866;

XX

DT

XX

DE

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KW

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KW

KW

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PF

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PA

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DR

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XX DE CD31 fragment (domains D1-D5).
XX KW CD31; domain; antibody; detection; carcinoma; inflammation;
XX KW inhibition; treatment.
XX OS Homo sapiens.
XX PN GB2294321-A.
XX XX GB2294321-A.
XX PD 24-APR-1996.
XX PF 19-OCT-1994; 94GB-0021118.
XX XX 19-OCT-1994; 94GB-0021118.
XX PA (IMCR ) IMPERIAL CANCER RES FUND.
XX PA (YAMA-) YAMANOUCHI RES INST.
XX PI Bird I, Buckley C, Fawcett J, Simmons D, Spragg J;
XX WPI; 1996-202498/21.
XX PT Methods of screening for inhibitors of CD31 interactions - and
XX PT mapping their sites of reaction with the CD31 protein
XX PS Disclosure; Figure 16; 31pp; English.
XX XX Screening of inhibitors of CD31 is achieved by incubating labelled
XX CC CD31 component with potential inhibitor, adding this mixture to CD31
XX CC component immobilised on a support, washing and detecting label.
XX CC Alternatively, potential inhibitor can be incubated with CD31
XX CC component immobilised on a support and labelled CD31 component can
XX CC be added followed by washing and detecting label. Failure to
XX CC detect label suggests that the compound being screened is not an
XX CC inhibitor of CD31. The method is used to identify antibodies that
XX CC can be used in the treatment of carcinomas and inflammation.
XX SQ Sequence 474 AA;
Query Match 6.9%; Score 97.5; DB 17; Length 474;
Best Local Similarity 22.8%; Pred. No. 0.94;
Matches 44; Conservative 27; Mismatches 93; Indels 29; Gaps 6;
QY 19 KAREEETTPVSIAYKVLVEPK-----GRWVLTCCAPPPTPYSLCGTX 66
Db 275 KVSSRSKSVSSIVNVNITELFSKEELSSFTHLDDQGERLNLSCIPGAPP-----A 325
QY 67 NIKVAKVKVKTHTPASPANLNVTLKSSPDLLTYFCRASSTSGAHVDSARLQHWELWSKPV 126
Db 326 NFTIQKEDTIVSQTQDF---TKIASKSDSGTYICTAGIDKVKVKSNTVQIVCEMUSQPR 382
QY 127 SELRANFTLQDRGAGPRVEMICQASSGSPPTITNSLIGKQGVHLQORPCHROPANFSFLP 186
Db 383 ISYDAQPEVI---KGQTIIEVRCSISGTLPSYQLL-KTSKVLNSTKNENDPAVFKDNP 438
QY 187 SQTSDMFVCOAAN 199
Db 439 TEDVE-YQCVDAN 450
RESULT 41
ABG10463
ID ABG10463 standard; Protein; 506' AA.
XX AC ABG10463;
XX XX 13-FEB-2002 (first entry)
XX DT Novel human diagnostic protein #10454.
XX DE Human; chromosome mapping; gene mapping; gene therapy; forensic;
XX KW food supplement; medical imaging; diagnostic; genetic disorder.
XX XX
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```
XX OS Homo sapiens.
XX PN WO200175067-A2.
XX XX 11-OCT-2001.
XX PF 30-MAR-2001; 2001WO-US08631.
XX XX 31-MAR-2000; 2000US-0540217.
XX PR 23-AUG-2000; 2000US-0649167.
XX XX (HYSE-) HYSEQ INC.
XX PI Drmanac RT, Liu C, Tang YT;
XX DR WPI; 2001-639362/73.
XX DR N-PSDB; AAS74650.
XX XX New isolated polynucleotide and encoded polypeptides, useful in
XX PT diagnostics, forensics, gene mapping, identification of mutations
XX PT responsible for genetic disorders or other traits and to assess
XX PT biodiversity -
XX XX Claim 20; SEQ ID No 40822; 103pp; English.
XX XX The invention relates to isolated polynucleotide (I) and
XX CC polypeptide (II) sequences. (I) is useful as hybridisation probes,
XX CC polymerase chain reaction (PCR) primers, oligomers, and for chromosome
XX CC and gene mapping, and in recombinant production of (II). The
XX CC polynucleotides are also used in diagnostics as expressed sequence tags
XX CC for identifying expressed genes. (I) is useful in gene therapy techniques
XX CC to restore normal activity of (II) or to treat disease states involving
XX CC (II). (II) is useful for generating antibodies against it, detecting or
XX CC quantitating a polypeptide in tissue, as molecular weight markers and as
XX CC a food supplement. (II) and its binding partners are useful in medical
XX CC imaging of sites expressing (II). (I) and (II) are useful for treating
XX CC disorders involving aberrant protein expression or biological activity.
XX CC The polypeptide and polynucleotide sequences have applications in
XX CC diagnostics, forensics, gene mapping, identification of mutations
XX CC responsible for genetic disorders or other traits to assess biodiversity
XX CC and to produce other types of data and products dependent on DNA and
XX CC amino acid sequences. ABG0010-ABG0377 represent novel human
XX CC diagnostic amino acid sequences of the invention.
XX CC Note: The sequence data for this patent did not appear in the printed
XX CC specification, but was obtained in electronic format directly from WIPO
XX CC at fip.wipo.int/pub/published_pct_sequences.
XX SQ Sequence 506 AA;
Query Match 6.9%; Score 97.5; DB 22; Length 506;
Best Local Similarity 20.7%; Pred. No. 1;
Matches 62; Conservative 41; Mismatches 100; Indels 97; Gaps 14;
QY 1 MG-LPGFCLAVL---AASFSEKAREEETTPVSIAYKVLVEPPKGRWVLTCCAPP-- 54
Db 1 MGFLPKLLILASFPFAGQASGWSPQDVQGV-----KGSCLLIPCFSPAD 48
QY 55 ---PPFIT---YSLCGTKNI-----KVAKVKVKTHER---ASPNLVTLKS----- 91
Db 49 VEVPDGTITAIWYDYGQRRVFMGNPEHRVNCNLLLDQLQPEDSGSYNFRFEISEVNRWSD 108
QY 92 -SPDLTYFCRASSTSGAHVDSARLQHWELWSKPV-----SELRANFTLQDR 138
Db 109 VKGTLVTVTARSLSPPGRHLETLHWMAMSWQDCHRIIRCQLSVANHRAQSEIHLQVKYAPR 168
QY 139 GA-----GPRVEMICQASSGSPPTITNSLIGKQGVHLQORP--CHROPANFS 183
Db 169 GVKILLSPSGRNILPGELVTLTCQVNSSYPAVSSIKWLKDG-VRLQTKGVHLHPQAWS 227
QY 184 FLPSQTSDFWFOQANNANVQHSALTVPVPGGQKMDWQGPLESILALPLYRSTRRLS 243
Db 228 ----DAGVITCOAENG-----GSLVSPPTSLHIFMAEVQVS 260
```

RESULT 42	PI	Gallatin WM, Vazeux R;
AAR39741	XX	
ID AAR39741 standard; Protein; 547 AA.	DR	WFI; 1993-258372/32.
AC AAR39741;	DR	N-PSDB; AAQ46991.
XX	XX	
25-MAR-2003 (updated)	PT	DNA encoding new human inter-cellular adhesion molecule
25-JAN-1994 (first entry)	PT	polypeptide (ICAM-R) - useful for treating immune and
XX	PT	inflammatory diseases, tumours and viral infection e.g. HIV
XX	XX	
ICAM-R (Inter-cellular adhesion molecule R).	PS	Claim 12; Figure 1(A-G); 126pp; English.
XX	XX	
ICAM-R; autoimmunity; inflammation; arthritis; glomerulonephritis;	CC	ICAM-R polypeptides can be used in the modulation of immune cell
transplant rejection.	CC	activation/proliferation as competitive inhibitors or stimulatory
XX	CC	agents of inter- and intracellular ligand/receptor binding
XX	CC	reactions involving ICAM-R. ICAM-R and related products can be
OS Homo sapiens.	CC	used for the treatment of conditions resulting from a response
XX	CC	of the non-specific immune response in a mammal, e.g. adult
FH Key	CC	respiratory distress syndrome, acute glomerulonephritis, reactive
Region 1..29	CC	arthritis, stroke etc, and conditions resulting from a response
/label= putative leader peptide.	CC	of the specific immune system in a mammal e.g. psoriasis,
43..100	CC	organ/transplant rejection and autoimmune diseases. The ICAM-R
/label= Immunoglobulin-like domain.	CC	products can also be used for monitoring and treating asthma,
139..190	CC	tumour growth and/or metastasis and viral infection.
/label= Immunoglobulin like domain.	CC	(Updated on 25-MAR-2003 to correct PN field.)
241..294	XX	
/label= Immunoglobulin like domain.	SQ	Sequence 547 AA;
336..375		
/label= Immunoglobulin like domain.		
423..462		
/label= Immunoglobulin like domain.		
42		
/label= Potential N-glycosylation site.		
84		
/label= Potential N-glycosylation site.		
87		
/label= Potential N-glycosylation site.		
101		
/label= Potential N-glycosylation site.		
110		
/label= Potential N-glycosylation site.		
134		
/label= Potential N-glycosylation site.		
206		
/label= Potential N-glycosylation site.		
264		
/label= Potential N-glycosylation site.		
295		
/label= Potential N-glycosylation site.		
308		
/label= Potential N-glycosylation site.		
320		
/label= Potential N-glycosylation site.		
363		
/label= Potential N-glycosylation site.		
389		
/label= Potential N-glycosylation site.		
486..510		
/label= Putative transmembrane region.		
XX		
WO9314776-A1.	PN	
XX	XX	
05-AUG-1993.	PD	
XX	XX	
26-JAN-1993;	PF	
XX	XX	
27-JAN-1992;	PR	
92US-0827689.	PR	
26-MAY-1992;	PR	
92US-0889724.	PR	
05-JUN-1992;	PR	
92US-0894061.	PR	
22-JAN-1993;	PR	
93US-0009266.	PR	
XX	XX	
(ICOS-) ICOS CORP.	PA	
XX	XX	



DNA encoding mutant ICAM-R polypeptide(s) - useful for diagnosis  
PT and treatment of cell adhesion based disease conditions e.g.  
PT inflammation or asthma  
XX  
XX Claim 1; Fig 1A-G; 11pp; English.  
XX  
XX The present sequence represents human ICAM-R (intercellular adhesion  
CC molecule-R). ICAMs are polypeptides that are expressed on blood vessel  
CC endothelial cell surfaces and are involved in the adhesion events in  
CC various conditions. ICAM-R variants (see AM71264-69) can be used to  
CC treat or monitor inflammatory conditions involving specific or  
CC nonspecific immune responses, asthma, tumour growth and/or metastasis and  
CC viral infections. The ICAM variants are produced recombinantly, from  
CC expression libraries of mutated sequences, and the ones that are claimed  
CC are the ones that have been found to be especially involved in adhesion  
CC events. They can also be used to raise antibodies, also for use as  
CC therapeutic or diagnostic agents.  
CC (Updated on 25-MAR-2003 to correctPR field.)  
CC

```

SQ      Sequence      547 AA;

Query Match      6.9%; Score 97.5; DB 19; Length 547;
Best Local Similarity 21.0%; Pred. No. 1.1;
Matches 50; Conservative 41; Mismatches 92; Indels 55; Gaps 11;

QY      38 VEPKGRWVLTCC-----APQPPPI-----TYSLCGT---KNIKVAKKV 75
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db      9 LWFACWTLVCCLLTPGVQGQFLLRVFQNPVLSAGSLFVNCSTDCPSSEKIALET 68
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

QY      76 KTHPE-----ASFNLNVTKSPDILTYFCRASSTG-AHYDSARLQHMWEL---W 122
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db      69 LSKELVASGMGAFAFLSNVTGNSRILCSVVCNGSQITGSSNITVYGLPERVELAPLPW 128
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

QY      123 SKPVSELRAFTLLQDRGAGRPVEMIQAASSGSPITNSLKGQGVHLOQRPCHRPQANF 182
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db      129 -QPVGQ---NFTLR-----CQVEGSPRTSLTVLLRWEELSHQPAVEEPAEV 173
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

QY      183 SFLPSTQSD-----WFWCQAANNVQHSALTVPVPGDQKMDWQGLESPILALPLPY 236
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db      174 TATVLASRDHGAFFSCRTIEDMQPQGLGH-FYNTSAPROLRYFVLVPTVPRIVLAPVRF 230
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

```

RESULT 45	
AAW59005	
ID AAW59005 standard; Protein; 547 AA.	
XX	
AC	
AAW59005;	
XX	
DT 04-AUG-1998 (first entry)	
XX	
DE Human ICAM-R protein.	
XX	
KW ICAM-4; ICAM-R; intercellular adhesion molecule; rat; neuron-specific; KW promoter; hippocampus; antibody; cell-cell interaction; ss.	
XX	
OS Homo sapiens.	
XX	
PN US5753502-A.	
XX	
PD 19-MAY-1998.	
XX	
Pf 06-JUN-1996; 96US-0656984.	
XX	
Pf 06-JUN-1996; 96US-0656984.	
PR 05-AUG-1993; 93US-0102852.	
PR 18-MAY-1994; 94US-0245295.	
PR 07-JUN-1995; 95US-0481130.	
XX	
PA (ICOS-) ICOS CORP.	
XX	
PI Gallatin WM, Kilgannon PD;	
XX WPI; 1998-311408/27.	
DR	

DR	N-PSDB; AAV11657.
XX	
XX	ICAM-4 gene promoter - for directing gene expression in neuronal
PT	cells
XX	
PS	Disclosure; Col 41-46; 47pp; English.
XX	
XX	This sequence represents a human neuron-specific intercellular
CC	adhesion molecule, ICAM-R, which is used in a method to isolate a
CC	human ICAM-4 gene promoter. This promoter specifically promotes gene
CC	transcription in neuronal cells especially hippocampal cells. Recombinant
CC	proteins can also be used to raise antibodies against ICAM-4. The ICAM-4
CC	DNA sequences and its recombinant production are new tools in the
CC	elucidation of cell-cell interactions.
XX	
XX	Sequence 547 AA;
SQ	

```

Query Match      6.9%; Score 97.5; DB 19; Length 547;
Best Local Similarity 21.0%; Pred. No. 1.1;
Matches 50; Conservative 41; Mismatches 92; Indels 55; Gaps 11;

QY      38 VPEKGSWLITCC-----APQPPPI-----TYSLCG-----KNIKVAKVV 75
      : : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
Db      9 LNPRAWLLVCLLTTPGVQGFLELRVEPQNVLSAGSLFVNCSTDCPSSKIALETS 68
      : : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
QY      76 KTHEP-----ASFNLNVTLKSSPDLLTYFCRASSTG-AHYDSARLQMHWEI-----W 122
      : : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
Db      69 LSKELVASGGMWAAFNLVNTGNSRLCSVYCNQSGQITGSSNITVYGLPERVELAPLPW 128
      : : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
QY      123 SKPEVSLRANFTLDRGAGRVEIMICQASSGSPPIINSILICKDQVHLQORPCRQPANF 182
      : : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
Db      129 -QVVGQ---NFTLR-----CQVGGGFPRTSLTVLLRWEBSLRQAVEBPAAEV 173
      : : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
QY      183 SFLPQSTSD----WFWCQAAANNVQHSALTVPVPGGDQKMDWQGFLESPILALELY 236
      : : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
Db      174 TATVILASRDDHGAPSCRTVELDMCPQGLG-FVNTSAPRLRTFVLVTPPPRIVAVPFF 230
      : : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |

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RESULT	46
AAW44838	
ID	AAW44838 standard; Protein; 547 AA.
XX	
AC	AAW44838;
XX	
DT	21-JUL-1998 (first entry)
XX	
DE	Human ICAM-4 protein.
XX	
KW	Rat; intracellular adhesion molecule; ICAM; probe; hybridisation; human;
KW	reverse transcription; RT-PCR; RACE; rapid amplification of cDNA ends;
KW	immunogen; antibody.
XX	
OS	Homo sapiens.
PN	US5700658-A.
XX	
PD	23-DEC-1997.
XX	
PF	18-MAY-1994; 94US-0245295.
XX	
PR	18-MAY-1994; 94US-0245295.
PR	27-JAN-1992; 92US-0827689.
PR	26-MAY-1992; 92US-0889724.
PR	05-JUN-1992; 92US-0894061.
PR	22-JAN-1993; 93US-0009286.
PR	05-AUG-1993; 93US-0102852.
XX	
PPA	(ICOS-) ICOS CORP.
XX	
PPI	Gallatin WM, Kilgannon PD;
XX	
DR	WPI; 1998-062375/06.
DR	N-PsDB; AAV19328.







PT its variants useful, for treating inflammatory conditions, Crohn's  
 PT disease, atherosclerosis and diabetes -  
 XX  
 PS Claim 1; Figure 1; 109pp; English.  
 XX

CC This invention relates to a hybrid fusion protein comprising an  
 CC intercellular adhesion molecule (ICAM-R) amino acid fragment at its  
 CC amino terminus and a constant domain of an immunoglobulin heavy chain at  
 CC its carboxy terminus. ICAM-R polypeptides are useful for treating and  
 CC monitoring inflammatory conditions such as adult respiratory distress  
 CC syndrome, multiple organ injury syndrome secondary to septicemia or  
 CC trauma, reperfusion injury of tissue, acute glomerulonephritis, reactive  
 CC arthritis, dermatosis, stroke, thermal injury, haemodialysis,  
 CC leukapheresis, ulcerative colitis, Crohn's disease, necrotising  
 CC enterocolitis, granulocyte transfusion associated syndrome,  
 CC atherosclerosis and cytokine induced toxicity. ICAM-R polypeptides are  
 CC also useful for treating conditions resulting from a response of the  
 CC specific immune system in a mammal e.g. psoriasis, organ/tissue  
 CC transplant rejection and autoimmune diseases including Raynaud's  
 CC syndrome, autoimmune thyroiditis, multiple sclerosis, rheumatoid  
 CC arthritis, diabetes and lupus erythematosus. ICAM-R products and ICAM-R  
 CC related products are also useful in monitoring and treating asthma,  
 CC tumour growth and/or metastasis, and viral infection (e.g. HIV  
 CC infection). Sequences AAA97090 and AAB13036 represent the human ICAM-R  
 CC DNA and protein sequences. Sequences AAA97091-A97112 represent ICAM-R  
 CC DNA fragments, PCR primers and probes, all used in the identification of  
 CC the ICAM-R DNA sequence. AAA97113-A97123 and AAA97125-A97152 represent  
 CC primers used in the production of humanised anti-ICAM-R antibody ICR-8.1,  
 CC and fragments of the humanised antibody. Sequences AAA97124-A97128,  
 CC AAA97132, AAA97144 represent ICR-8.1 sequences. Sequences AAA97153-A97176  
 CC excluding AAA97155-A97156 represent primers used in the production of  
 CC humanised anti-ICAM-R antibody ICR-1.1, and fragments of the humanised  
 CC antibody. Sequences AAA97155-A97156 and AAB13047-B13048 represent murine  
 CC ICR-1.1 sequences. DNA and peptide sequences used in the production of  
 CC the chimeric protein of the invention include AAA97117-A97188 and  
 CC AAB13050-B13051.  
 XX

XX Sequence 547 AA;

Query Match 6.9%; Score 97.5; DB 21; Length 547;

Best Local Similarity 21.0%; Pred. No. 1.1;

Matches 50; Conservative 41; Mismatches 92; Indels 55; Gaps 11;

QY 38 VFPKRWLITCC-----APQPPPI-----TSLCGT---KNIKVAKKV 75

DB 9 LWPRACWTLVCCLLTPGVQGFLLRVEPQNFVLSAGSLFVNCSTDCPSSEKIALETS 68

QY 76 KTHEP-----ASFNLNVLKSPDLLTYFCRASSTSG-AHVDASAELOMHWEL-----W 122

DB 69 LSKELVASGMGWAFAFNLSNVTGNSRILCSVYCGSQITGSSNITVYGLPERVELAPLP 128

QY 123 SKPVSELRNFTLQDRAGRVEIMCQASSGSPITNSLKGQGVHLQRPCHQRFANF 182

DB 129 -QPVGQ---NFTLR-----CQVEGSPRTSLTVLLRWEELSRSQPAVEEPAEV 173

QY 183 SFLPSQTSQD---WFCQAAANNVQHSALTVPVPGDGKMDQGPLESFILALPLY 236

DB 174 TATVLSRDDHGAFCSTELDMQPGGLGL-FVNTSAPRLQRTFVLVTPPLVAPRP 230

RESULT 50

AAV82435

ID AAV82435 standard; Protein; 547 AA.

XX AAV82435;

XX 28-JUN-2000 (first entry)

XX Human ICAM-R encoding cDNA SEQ ID NO:1.

XX Human; ICAM-R; chromosome 19; intracellular adhesion molecule receptor;

XX CAM; ICAM-1; ICAM-2; humanised; antibody; mutagenic; chimeric; vulnary;

XX neuropathic; antiarthritis; cerebroprotective; antiulcer; cytostatic;

XX antiarteriosclerotic; immunosuppressive; antidiabetic; neuroprotective;  
 XX antithyroid; dermatologic; antiasthmatic; antiviral; antiinflammatory;  
 XX anti-HIV; vasotrophic; antipsoriatic; immunomodulator; antirheumatic;  
 XX cell adhesion mediator; inflammatory condition; immunisation;  
 XX immune response.  
 XX Homo sapiens.  
 XX US6040176-A.  
 XX 21-MAR-2000.  
 XX 12-SEP-1996; 96US-0714017.  
 XX 05-AUG-1994; 94US-0286754.  
 XX 27-JAN-1992; 92US-0827489.  
 XX 26-MAY-1992; 92US-0889724.  
 XX 05-JUN-1992; 92US-0894061.  
 XX 22-JAN-1993; 93US-0009266.  
 XX 26-JAN-1993; 93WO-US00787.  
 XX 05-AUG-1993; 93US-0102852.  
 XX (ICOS-) ICOS CORP.  
 XX Gallatin WM, Vazeux R;  
 XX WPI; 2000-270138/23.  
 XX Novel monoclonal antibody directed against ICAM-R proteins useful for  
 XX treating acute glomerulonephritis, ulcerative colitis, psoriasis,  
 XX rheumatoid arthritis, diabetes, multiple sclerosis, asthma and viral  
 XX infection -  
 XX Example 4; Fig 1; 117pp; English.

XX The present invention describes a monoclonal antibody (MAB) (I),  
 XX produced by the hybridoma cell line 81K2F (ATCC HB 11692). Also described  
 XX are: (1) a hybridoma cell line 81K2F; and (2) a MAB (II), that competes  
 XX with (I) for binding to ICAM-R (intracellular adhesion molecule  
 XX receptor) (III). (II) mimics the activity of natural binding proteins  
 XX through which intercellular and intracellular activities of (III) are  
 XX modulated. (II) is also used for modulating the immune responses. (I) is  
 XX useful for immunisation as well as for purifying (III). They are also  
 XX useful in modulating the ligand/receptor binding biological activity  
 XX involving (III) especially those effector functions of (III) involved in  
 XX specific and non-specific immune system responses. Inflammatory  
 XX conditions which may be treated or monitored with related products of  
 XX (III) include conditions resulting from a response of the non-specific  
 XX immune system in a mammal e.g. adult respiratory distress syndrome,  
 XX multiple organ injury syndrome secondary to septicemia or trauma,  
 XX reperfusion injury of tissue, acute glomerulonephritis, reactive  
 XX arthritis, stroke, ulcerative colitis and atherosclerosis, and conditions  
 XX resulting from a response of the specific immune system in a mammal, e.g.  
 XX psoriasis, organ/tissue transplantation rejection, autoimmune diseases  
 XX such as autoimmune thyroiditis, multiple sclerosis, rheumatoid arthritis,  
 XX diabetes and lupus erythematosus. AAA08236 to AAA08334, and AAV82435 to  
 XX AAV82451 represent sequences used in the exemplification of the present  
 XX invention.

XX Query Match 6.9%; Score 97.5; DB 21; Length 547;

Best Local Similarity 21.0%; Pred. No. 1.1;

Matches 50; Conservative 41; Mismatches 92; Indels 55; Gaps 11;

QY 38 VFPKRWLITCC-----APQPPPI-----TSLCGT---KNIKVAKKV 75

DB 9 LWPRACWTLVCCLLTPGVQGFLLRVEPQNFVLSAGSLFVNCSTDCPSSEKIALETS 68

QY 76 KTHEP-----ASFNLNVLKSPDLLTYFCRASSTSG-AHVDASAELOMHWEL-----W 122

DB 69 LSKELVASGMGWAFAFNLSNVTGNSRILCSVYCGSQITGSSNITVYGLPERVELAPLP 128

QY 123 SKPVSELRNFTLQDRAGRVEIMCQASSGSPITNSLKGQGVHLQRPCHQRFANF 182

DB 129 -QPVGQ---NFTLR-----CQVEGSPRTSLTVLLRWEELSRSQPAVEEPAEV 173

QY 183 SFLPSQTSQD---WFCQAAANNVQHSALTVPVPGDGKMDQGPLESFILALPLY 236

DB 174 TATVLSRDDHGAFCSTELDMQPGGLGL-FVNTSAPRLQRTFVLVTPPLVAPRP 230

RESULT 50

AAV82435

ID AAV82435 standard; Protein; 547 AA.

XX AAV82435;

XX 28-JUN-2000 (first entry)

XX Human ICAM-R encoding cDNA SEQ ID NO:1.

XX Human; ICAM-R; chromosome 19; intracellular adhesion molecule receptor;

XX CAM; ICAM-1; ICAM-2; humanised; antibody; mutagenic; chimeric; vulnary;

XX neuropathic; antiarthritis; cerebroprotective; antiulcer; cytostatic;

XX antiarteriosclerotic; immunosuppressive; antidiabetic; neuroprotective;  
 XX antithyroid; dermatologic; antiasthmatic; antiviral; antiinflammatory;  
 XX anti-HIV; vasotrophic; antipsoriatic; immunomodulator; antirheumatic;  
 XX cell adhesion mediator; inflammatory condition; immunisation;  
 XX immune response.  
 XX Homo sapiens.  
 XX US6040176-A.  
 XX 21-MAR-2000.  
 XX 12-SEP-1996; 96US-0714017.  
 XX 05-AUG-1994; 94US-0286754.  
 XX 27-JAN-1992; 92US-0827489.  
 XX 26-MAY-1992; 92US-0889724.  
 XX 05-JUN-1992; 92US-0894061.  
 XX 22-JAN-1993; 93US-0009266.  
 XX 26-JAN-1993; 93WO-US00787.  
 XX 05-AUG-1993; 93US-0102852.  
 XX (ICOS-) ICOS CORP.  
 XX Gallatin WM, Vazeux R;  
 XX WPI; 2000-270138/23.  
 XX Novel monoclonal antibody directed against ICAM-R proteins useful for  
 XX treating acute glomerulonephritis, ulcerative colitis, psoriasis,  
 XX rheumatoid arthritis, diabetes, multiple sclerosis, asthma and viral  
 XX infection -  
 XX Example 4; Fig 1; 117pp; English.

XX The present invention describes a monoclonal antibody (MAB) (I),  
 XX produced by the hybridoma cell line 81K2F (ATCC HB 11692). Also described  
 XX are: (1) a hybridoma cell line 81K2F; and (2) a MAB (II), that competes  
 XX with (I) for binding to ICAM-R (intracellular adhesion molecule  
 XX receptor) (III). (II) mimics the activity of natural binding proteins  
 XX through which intercellular and intracellular activities of (III) are  
 XX modulated. (II) is also used for modulating the immune responses. (I) is  
 XX useful for immunisation as well as for purifying (III). They are also  
 XX useful in modulating the ligand/receptor binding biological activity  
 XX involving (III) especially those effector functions of (III) involved in  
 XX specific and non-specific immune system responses. Inflammatory  
 XX conditions which may be treated or monitored with related products of  
 XX (III) include conditions resulting from a response of the non-specific  
 XX immune system in a mammal e.g. adult respiratory distress syndrome,  
 XX multiple organ injury syndrome secondary to septicemia or trauma,  
 XX reperfusion injury of tissue, acute glomerulonephritis, reactive  
 XX arthritis, stroke, ulcerative colitis and atherosclerosis, and conditions  
 XX resulting from a response of the specific immune system in a mammal, e.g.  
 XX psoriasis, organ/tissue transplantation rejection, autoimmune diseases  
 XX such as autoimmune thyroiditis, multiple sclerosis, rheumatoid arthritis,  
 XX diabetes and lupus erythematosus. AAA08236 to AAA08334, and AAV82435 to  
 XX AAV82451 represent sequences used in the exemplification of the present  
 XX invention.

XX Query Match 6.9%; Score 97.5; DB 21; Length 547;

Best Local Similarity 21.0%; Pred. No. 1.1;

Matches 50; Conservative 41; Mismatches 92; Indels 55; Gaps 11;

QY 38 VFPKRWLITCC-----APQPPPI-----TSLCGT---KNIKVAKKV 75

DB 9 LWPRACWTLVCCLLTPGVQGFLLRVEPQNFVLSAGSLFVNCSTDCPSSEKIALETS 68

QY 76 KTHEP-----ASFNLNVLKSPDLLTYFCRASSTSG-AHVDASAELOMHWEL-----W 122

DB 69 LSKELVASGMGWAFAFNLSNVTGNSRILCSVYCGSQITGSSNITVYGLPERVELAPLP 128

